

002

CONFIDENTIAL

Form 3160-3
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-022158	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A	
2. Name of Operator SHENANDOAH ENERGY INC.		7. If Unit or CA Agreement, Name and No. WONSITS VALLEY	
3a. Address 11002 E. 17500 S. VERNAL, UT 84078		8. Lease Name and Well No. STIRRUP UNIT 7G-7-8-22	
3b. Phone No. (include area code) Ph: 435.781.4341 Fx: 435.781.4323		9. API Well No. 43-047-34628	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNE 1985FNL 2290FEL At proposed prod. zone		10. Field and Pool, or Exploratory WONSITS VALLEY	
14. Distance in miles and direction from nearest town or post office* 13 +/- MILES SOUTHWEST OF REDWASH, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 7 T8S R22E Mer SLB	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1985' +/-		12. County or Parish UINTAH	
16. No. of Acres in Lease 1278.20		13. State UT	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 25' +/-		17. Spacing Unit dedicated to this well 40.00	
19. Proposed Depth 5800 MD 5800 TVD		20. BLM/BIA Bond No. on file U-0969	
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5046 KB		23. Estimated duration 10 DAYS	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) JOHN BUSCH	Date 06/25/2002
Title OPERATIONS		
Approved by (Signature) 	Name (Printed/Typed) BRADLEY G. HILL	Date 07-15-02
Title RECLAMATION SPECIALIST III		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #12047 verified by the BLM Well Information System
For SHENANDOAH ENERGY INC., sent to the Vernal

RECEIVED
JUN 27 2002
DIVISION OF
OIL, GAS AND MINING
** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

T8S, R22E, S.L.B.&M.

R
21
E

N00°45'W - 41.04 (G.L.O.)

N00°58'40"W - 2696.86' (Meas.)

R
22
E

N89°46'W - (G.L.O.)

(19.50)

(20.00)

1938
Brass Cap
0.8' High

N89°46'23"W - 2642.01' (Meas.)

1938
Brass Cap
1.2' High

LOT 1

SU #7G-7-8-22

Elev. Graded Ground = 5059'

LOT 2

Brass Cap

7

LOT 3

LOT 4

1963 Brass Cap
0.8' High

1967 Brass
Cap 1.2' High,
Four Stones NLY

N88°50'15"E - 2654.48' (Meas.)

N88°50'56"E - 2669.61' (Meas.)

1967 Brass
Cap 1.0' High,
Pile of Stones

N01°41'03"W - 2642.87' (Meas.)

1938
Brass Cap
1.1' High

N01°41'01"W - 2641.01' (Meas.)

LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)
LATITUDE = 40°08'25.77" (40.140492)
LONGITUDE = 109°28'57.68" (109.482689)

SHENANDOAH ENERGY, INC.

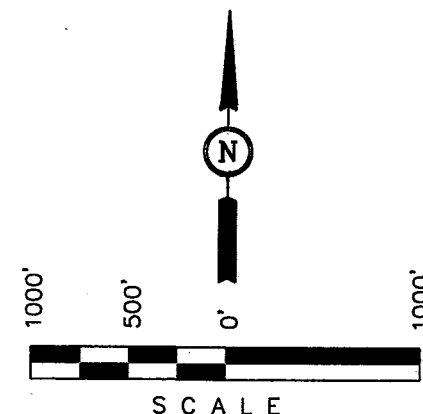
Well location, SU #7G-7-8-22, located as shown in the SW 1/4 NE 1/4 of Section 7, T8S, R22E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Robert L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH
KAY

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 05-17-02	DATE DRAWN: 05-23-02
PARTY D.A. J.A. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE SHENANDOAH ENERGY, INC.	

SHENANDOAH ENERGY INC.
SU 7G-7-8-22

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

Formation	Depth
Uinta	Surface
Green River	3048
Mahogany Ledge	3820
G 1 - Sand	5610
TD (Green River)	5800

2. Anticipated Depths of Oil, Gas, Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Oil/Gas	Green River	5800

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If no flows are detected, samples will be submitted to the BLM along with any water analyses conducted.

3. Anticipated Bottom Hole Pressures

Maximum anticipated bottom hole pressure equals approximately 2320.0 psi.

SHENANDOAH ENERGY INC.
STIRRUP UNIT 7G-7-8-22
1985' FNL, 2290' FEL
SWNE, SECTION 7, T8S, R22E
UINTAH COUNTY, UTAH
LEASE # UTU-022158

ONSHORE ORDER NO. 1

MULTI – POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

The proposed well site is approximately 13 miles Southwest of Redwash , Utah.

Refer to Topo Maps A and B for location of access roads within a 2 – mile radius.

There will be no improvements made to existing access roads.

2. **Planned Access Roads:**

Please see Shenandoah Energy Inc. Standard Operating Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

Refer to Topo Map B for the location of the proposed access road.
Use existing road.

3. **Location of Existing Wells Within a 1 – Mile Radius:**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

Please see Shenandoah Energy Inc. Standard Operating Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

Refer to Topo Map D for the location of the proposed pipeline.

5. **Location and Type of Water Supply:**

Please see Shenandoah Energy Inc. Standard Operating Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

6. **Source of Construction Materials:**

Please see Shenandoah Energy Inc. Standard Operating Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

7. **Methods of Handling Waste Materials:**

Please see Shenandoah Energy Inc. Standard Operating Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

8. **Ancillary Facilities:**

Please see Shenandoah Energy Inc. Standard Operating Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 to 24 East.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Please refer to WV 7W-7-8-22.

10. **Plans for Reclamation of the Surface:**

Please see Shenandoah energy Inc. Standard Operating Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Township 07 and 08 South, Ranges 21 to 24 East.

Please refer to WV 7W-7-8-22.

11. **Surface Ownership:**

The well pad and access road are located on lands owned by:

Bureau of Land Management
170 S. 500 E.
Vernal, Utah 84078
(435)781-4400

12. **Other Information**

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted directly to the appropriate agencies by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

Power lines will be installed per Shenandoah Energy Inc. Operating Practices.

Lessee's or Operator's Representative:



John Busch
Red Wash Operations Rep.
Shenandoah Energy Inc.
11002 East 17500 South
Vernal, Utah 84078
(435) 781-4341

Certification:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Shenandoah Energy Inc. will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Shenandoah Energy Inc. its' contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

John Busch
John Busch
Red Wash Operations Representative

25-Jun-02
Date

Additional Operator Remarks:

Shenandoah Energy Inc. proposes to drill a well to 5800' to test the Green River. If productive, casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

Please see Shenandoah Energy Inc. Standard Operating Practices for Green River Formation Wells located in Red Wash, Wonsits Valley, Gypsum Hills, White River, Glen Bench, and undesignated fields in Townships 07 and 08 South, Ranges 21 and 24 East.

See Onshore Order No. 1 attached

Please be advised that Shenandoah Energy Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.

Bond coverage for this well is provided by Bond No. U-0969. The principal is Shenandoah Energy Inc. via surety as consent as provided for the 43 CFR 3104.2.

SHENANDOAH ENERGY, INC.

SU #7G-7-8-22

LOCATED IN UTAH COUNTY, UTAH
SECTION 7, T8S, R22E, S.L.B.&M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO: VIEW OF EXISTING APPROACH

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

6
MONTH

6
DAY

02
YEAR

PHOTO

TAKEN BY: D.A.

DRAWN BY: P.M.

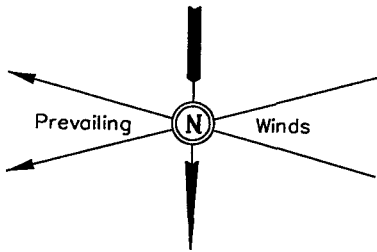
REVISED: 00-00-00

SHENANDOAH ENERGY, INC.

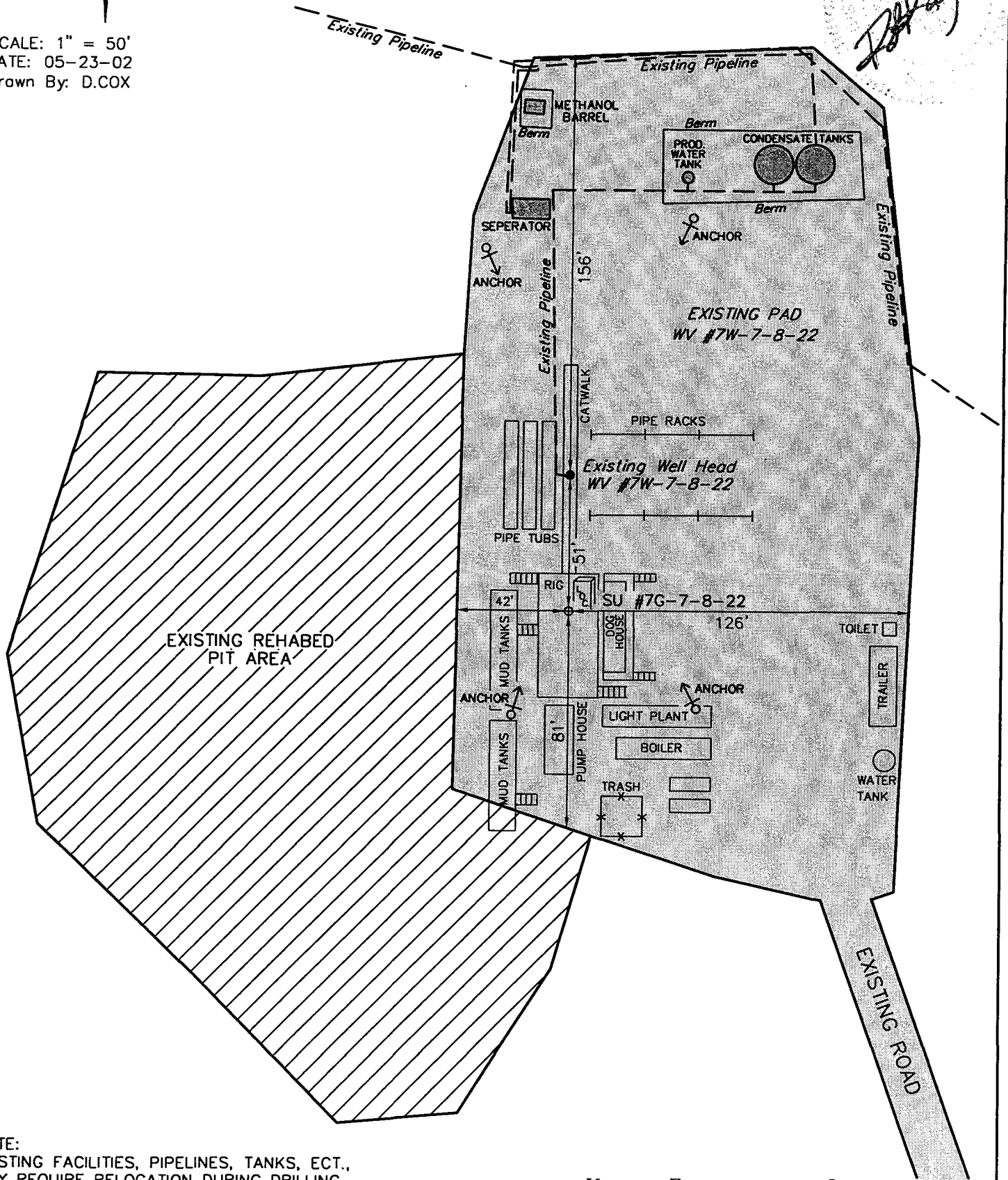
LOCATION LAYOUT FOR

SU #7G-7-8-22
SECTION 7, T8S, R22E, S.L.B.&M.
1985' FNL 2290' FEL

FIGURE #1

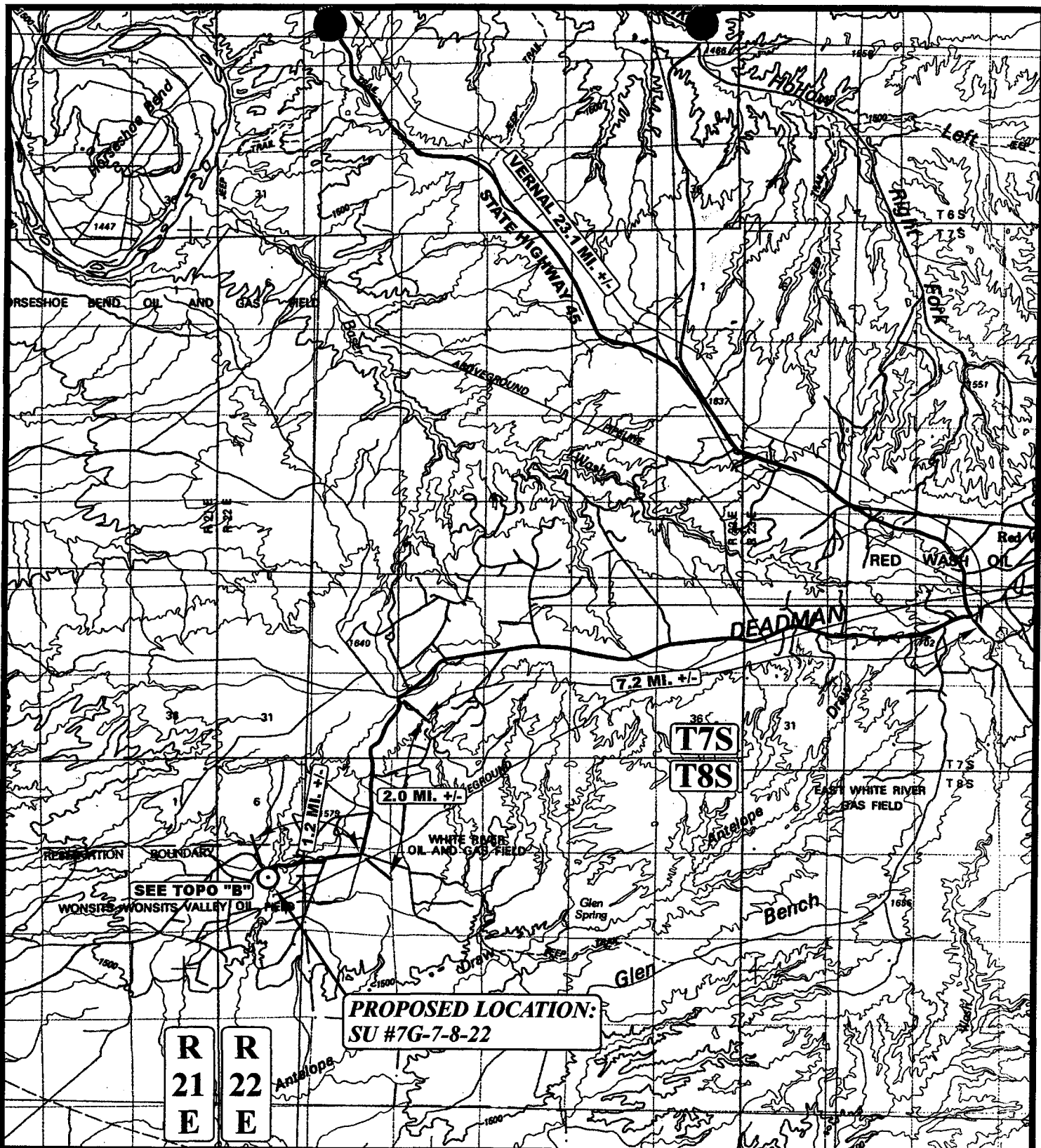


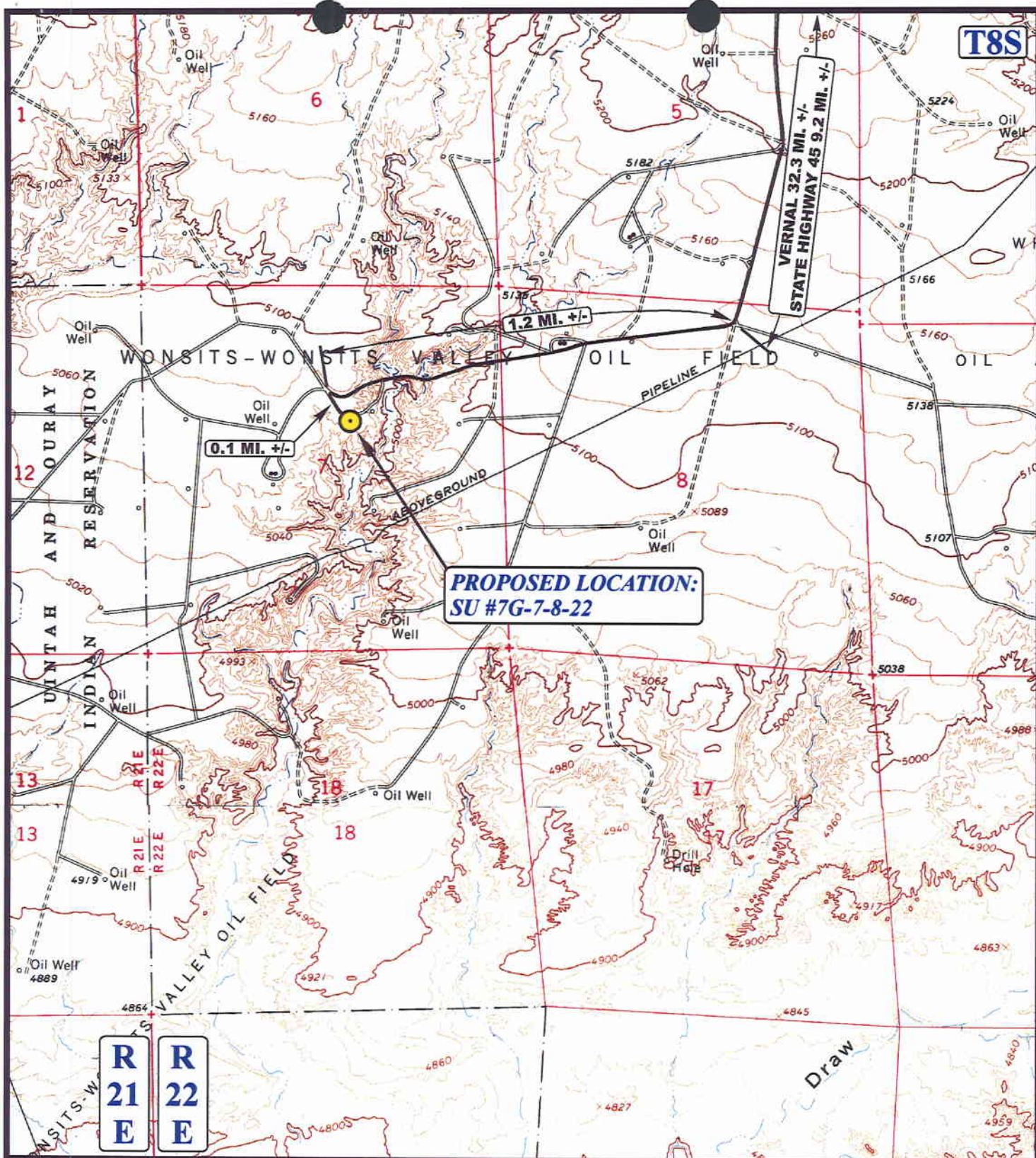
SCALE: 1" = 50'
DATE: 05-23-02
Drawn By: D.COX



NOTE:
EXISTING FACILITIES, PIPELINES, TANKS, ECT.,
MAY REQUIRE RELOCATION DURING DRILLING
PROCESS TO ACCOMODATE DRILLING RIG.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017





LEGEND:

EXISTING ROAD

SHENANDOAH ENERGY, INC.

SU #7G-7-8-22

SECTION 7, T8S, R22E, S.L.B.&M.

1985' FNL 2290' FEL



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

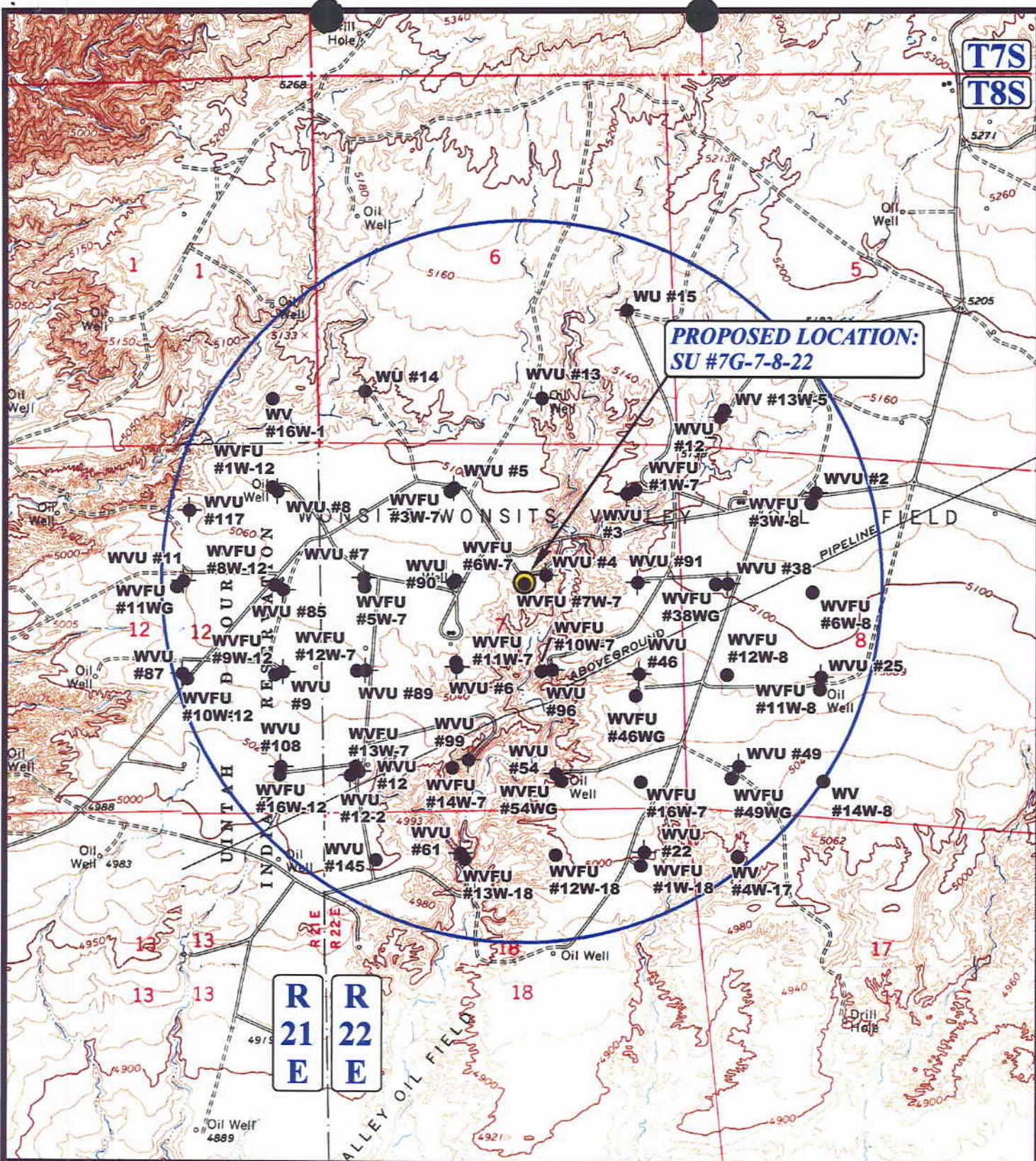


TOPOGRAPHIC
MAP

6 **6** **02**
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00

B
TOPO



LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

SHENANDOAH ENERGY, INC.

SU #7G-7-8-22

SECTION 7, T8S, R22E, S.L.B.&M.

1985' FNL 2290' FEL



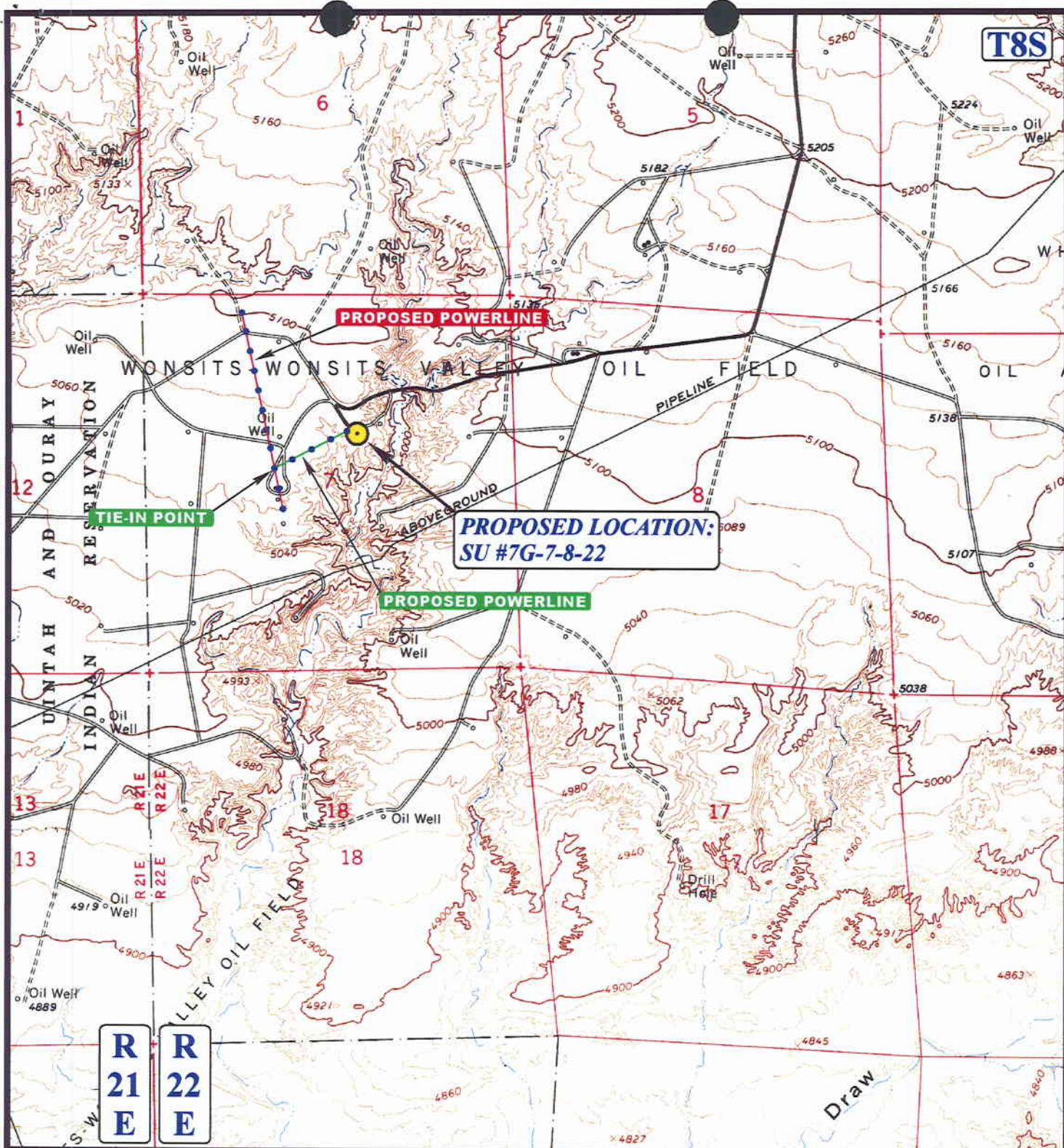
Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

6 6 02
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00





APPROXIMATE TOTAL POWERLINE DISTANCE = 1,239' +/-

LEGEND:

- ===== EXISTING ROAD
- PROPOSED POWERLINE
- PROPOSED POWERPOLE

SHENANDOAH ENERGY, INC.

SU #7G-7-8-22

SECTION 7, T8S, R22E, S.L.B.&M.

1985' FNL 2290' FEL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC MAP

6 6 02
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00

D
TOPO

003

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/27/2002

API NO. ASSIGNED: 43-047-34628

WELL NAME: Wonsits Valley
~~STIRNUP U~~ 7G-7-8-22OPERATOR: SHENANDOAH ENERGY INC (N4235)CONTACT: JOHN BUSCHPHONE NUMBER: 435-781-4341

PROPOSED LOCATION:

SWNE 07 080S 220E

SURFACE: 1985 FNL 2290 FEL

BOTTOM: 1985 FNL 2290 FEL

UINTAH

WONSITS VALLEY (710)

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-022158

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 40.14065

LONGITUDE: 109.48231

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]
 (No. U-0969)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit
 (No. 43-8496)

N RDCC Review (Y/N)
 (Date: _____)

NA Fee Surf Agreement (Y/N)

LOCATION AND SITING:

 R649-2-3.

Unit WONSITS VALLEY

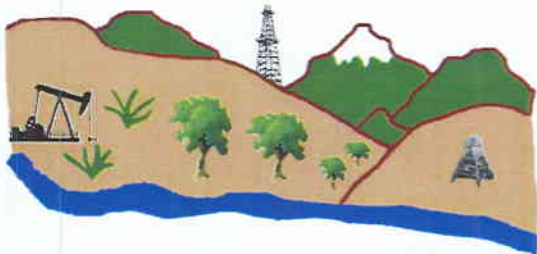
 R649-3-2. General
 Siting: 460 From Qtr/Qtr & 920' Between Wells

 R649-3-3. Exception

☒ Drilling Unit
 Board Cause No: 187-06
 Eff Date: 8-2-01
 Siting: *400 fr Unit boundary

 R649-3-11. Directional Drill

COMMENTS: Sop, Separate fileSTIPULATIONS: 1- Fed approve



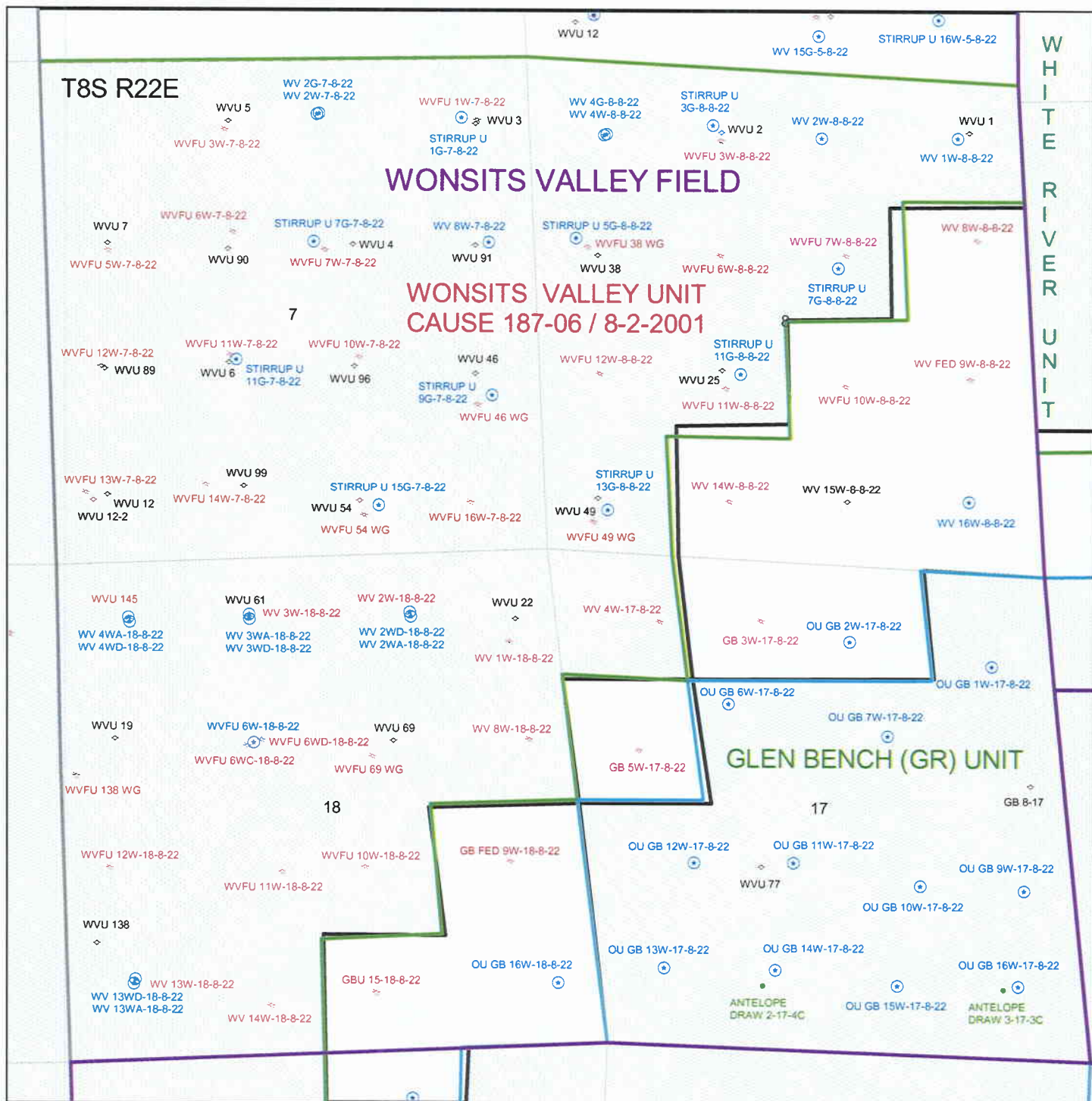
Utah Oil Gas and Mining

OPERATOR: SHENANDOAH ENERGY (N4235)

SEC. 7, T8S, R22E

FIELD: WONSITS VALLEY (710)

COUNTY: UINTAH UNIT: WONSITS VALLEY
CAUSE: 187-06



001

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

July 11, 2002

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2002 Plan of Development Wonsits Valley Unit,
Uintah County, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2002 within the Wonsits Valley Unit, Uintah County, Utah.

Api Number	Well	Location
------------	------	----------

Wonsits Valley Unit

(Proposed PZ GRRV)

43-047-34629	WVU 9G-7-8-22 Sec. 7, T8S, R22E 1654 FSL 0592	FEL
43-047-34628	WVU 7G-7-8-22 Sec. 7, T8S, R22E 1985 FNL 2290	FEL
43-047-34627	WVU 11G-7-8-22 Sec. 7, T8S, R22E 2215 FSL 1942	FWL
43-047-34626	WVU 15G-7-8-22 Sec. 7, T8S, R22E 0465 FSL 1813	FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Wonsits Valley Unit
Division of Oil Gas and Mining
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-11-2

004



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 telephone

(801) 359-3940 fax

(801) 538-7223 TTY

www.nr.utah.gov

Michael O. Leavitt
Governor

Robert L. Morgan
Executive Director

Lowell P. Braxton
Division Director

July 15, 2002

Shenandoah Energy Inc.
11002 E 17500 S
Vernal, UT 84078

Re: Stirrup Unit 7G-7-8-22 Well, 1985' FNL, 2290' FEL, SW NE, Sec. 7, T. 8 South,
R. 22 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-34628.

Sincerely,

A handwritten signature in cursive script, appearing to read 'John R. Baza'.

A handwritten signature in cursive script, appearing to read 'John R. Baza'.

John R. Baza
Associate Director

pb

Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal District Office

Operator: Shenandoah Energy Inc.
Well Name & Number Stirrup Unit 7G-7-8-22
API Number: 43-047-34628
Lease: UTU-022158

Location: SW NE Sec. 7 T. 8 South R. 22 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

MINING
** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Shenandoah Energy Inc.

Well Name & Number: Stirrup #7G-7-8-22

API Number: 43-047-34628

Lease Number: U-022158

Location: SWNE Sec. 7 T.8S R. 22E

Agreement: N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

Casing Program and Auxiliary Equipment

As a minimum requirement, the cement behind the production casing must extend 200' above the base of the fresh water identified at $\pm 2651'$.

Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

Other Information

A sundry notice to recomplete the 7W-7-8-22 well to the Green River formation has been approved by this office. Production from both of these wells at the same time will not be allowed without approval from the Utah State Division of Oil Gas and Mining.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman (435) 828-7874
Petroleum Engineer

Kirk Fleetwood (435) 828-7875
Petroleum Engineer

BLM FAX Machine (435) 781-4410

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No. UTU-022158
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No. UTU630430
8. Well Name and No. STIRRUP UNIT 7G-7-8-22
9. API Well No. 43-047-34628
10. Field and Pool, or Exploratory WONSITS VALLEY
11. County or Parish, and State UINTAH COUNTY, UT

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator SHENANDOAH ENERGY INC.	Contact: RALEEN SEARLE E-Mail: rsearle@shenandoahenergy.com
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 435.781.4309 Fx: 435.781.4329
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 7 T8S R22E SWNE 1985FNL 2290FEL	

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Shenandoah Energy Inc. proposes to change the name on the Stirrup Unit 7G-7-8-22 to Wonsits Valley 7G-7-8-22.

RECEIVED

OCT 31 2002

DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct. Electronic Submission #15589 verified by the BLM Well Information System For SHENANDOAH ENERGY INC., sent to the Vernal	
Name (Printed/Typed) RALEEN SEARLE	Title REGULATORY AFFAIRS ANALYST
Signature <i>Raleen Searle</i>	Date 10/29/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****



Questar Exploration and Production Company

Independence Plaza

1050 17th Street, Suite 500

Denver, CO 80265

Tel 303 672 6900 • Fax 303 294 9632

Denver Division

May 28, 2003

Division of Oil, Gas, & Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Attention: John Baza/Jim Thompson

Gentlemen:

This will serve as notice that through the internal corporate changes described below, activities formerly conducted in the name of either Shenandoah Operating Company, LLC (SOC) and/or Shenandoah Energy, Inc. (SEI) will hereafter be conducted in the name of QEP Uinta Basin, Inc.: i) the Shenandoah entities were purchased in July, 2001 by Questar Market Resources, Inc., which is a mid-level holding company for the non-utility businesses of Questar Corporation, ii) Shenandoah Operating Company, LLC has now been merged into Shenandoah Energy, Inc. (SEI), iii) Shenandoah Energy, Inc. has now been re-named **QEP Uinta Basin, Inc.** pursuant to a State of Delaware Amended and Restated Certificate of Incorporation, iv) the same employees will continue to be responsible for operations of the former SOC and SEI properties, both in the field and in the office. Accordingly, the change involves only an internal corporate name change and no third party change of operator is involved. Please alter your records to reflect the entity name change. Attached is a spreadsheet listing all wells affected by this change.

Should you have any questions, please call me at 303 - 308-3056.

Yours truly,

Frank Nielsen
Division Landman

Enclosure

RECEIVED

JUN 02 2003

DIV. OF OIL, GAS & MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

IN REPLY REFER TO
UT-922

June 9, 2003

QEP Uinta Basin, Inc.
1050 17th Street, Suite 500
Denver, Colorado 80265

Re: Wonsits Valley Unit
Uintah County, Utah

Gentlemen:

On May 30, 2003, we received an indenture dated February 1, 2003, whereby Shenandoah Energy, Inc. changed its name and QEP Uinta Basin, Inc. was designated as Successor Unit Operator for the Wonsits Valley Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective June 9, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under Wonsits Valley Unit Agreement.

Your nationwide (Eastern States) oil and gas bond No. B000024 will be used to cover all operations within the Wonsits Valley Unit.

It is requested that you notify all interested parties of the name change of unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Vernal (w/enclosure)
SITLA
Division of Oil, Gas & Mining
Minerals Adjudication Group
File – Wonsits Valley Unit (w/enclosure)
Agr. Sec. Chron
Fluid Chron

UT922:TAThompson:tt:6/9/03

JUL 07 2003

3104 (932.34)WF
Nationwide Bond ESB000024

NOTICE

QEP Uinta Basin, Inc.
1050 17th Street Suite 500
Denver, Colorado 80265

:
: Oil and Gas
: lease
:

Name Change Recognized

Acceptable evidence has been filed in this office concerning the name change of Shenandoah Energy Incorporated into QEP Uinta Basin, Incorporated. QEP Uinta Basin, Incorporated is the surviving entity. This name change is recognized effective April 17, 2003.

Eastern States will notify the Minerals Management Service and all applicable Bureau of Land Management offices of the change by a copy of this notice.

If you identify other leases in which the merging entity maintain an interest, please contact this office and we will appropriately document those files with a copy of this notice.

If you have any questions, please contact Bill Forbes at 703-440-1536.

S/ Wilbert B. Forbes

Wilbert B. Forbes
Land Law Examiner
Branch of Use Authorization
Division of Resources Planning,
Use and Protection

bc: JFO,MMS, ES RF, 930 RF, 932.34 RF, E-932: wbf:07 /07/03:440-1536/ QEP Uinta Basin
MFO

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil

Gas



Well



Well



Other

CONFIDENTIAL

2. Name of Operator

SHENANDOAH ENERGY INC. (QEP UINTA BASIN, INC.)

3. Address and Telephone No.

11002 E. 17500 S. VERNAL, UT 84078-8526

(435) 781-4341

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1985' FNL, 2290' FEL, SWNE, SECTION 7, T8S, R22E

5. Lease Designation and Serial No.

UTU-22158

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

UTU630430

8. Well Name and No.

WV 7G-7-8-22

9. API Well No.

43-047-34628

10. Field and Pool, or Exploratory Area

WONSITS VALLEY

11. County or Parish, State

UINTAH, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

TYPE OF ACTION



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other **APD Extension**



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Shenandoah Energy Inc. hereby requests a one year extension from approval date on the WV 7G-7-8-22.

COPY SENT TO OPERATOR

Date: **8-4-03**
Initials: **CHD**

Approved by the
Utah Division of
Oil, Gas and Mining

Date: **07-30-03**
By: **[Signature]**

RECEIVED

JUL 28 2003

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.

Signed **RALEEN SEARLE** *Raleen Searle*

Title **REGULATORY AFFAIRS ANALYST**

Date **7/24/03**

(This space for Federal or State office use)

Approved by: _____ Title _____ Date _____

Conditions of approval, if any _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**Application for Permit to Drill
Request for Permit Extension
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

API: 43-047-34628
Well Name: WV 7G-7-8-22
Location: SWNE, 1985 FNL, 2290 FEL, SEC. 7, T8S, R22E
Company Permit Issued to: SHENANDOAH ENERGY INC.
Date Original Permit Issued: 7/15/2002

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes ☐ No ☒

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes ☐ No ☒


Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes ☐ No ☒

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes ☐ No ☒

Has the approved source of water for drilling changed? Yes ☐ No ☒

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes ☐ No ☒

Is bonding still in place, which covers this proposed well? Yes ☒ No ☐


Signature

7/24/2003

Date

Title: REGULATORY AFFAIRS ANALYST

Representing: QEP UINTA BASIN, INC. (SEI)

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH

2. CDW

3. FILE

009

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

2/1/2003

FROM: (Old Operator):

N4235-Shenandoah Energy Inc

11002 E 17500 S

Vernal, UT 84078-8526

Phone: (435) 781-4341

TO: (New Operator):

N2460-QEP Uinta Basin Inc

11002 E 17500 S

Vernal, UT 84078-8526

Phone: (435) 781-4341

CA No.

Unit:

WONSITS VALLEY UNIT

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	Confid
WV EXT 2W-17-8-21	17	080S	210E	4304734928	12436	Federal	GW	DRL	C
WV 8W-22-8-21	22	080S	210E	4304734564	12436	Federal	GW	P	C
WV 8W-7-8-22	07	080S	220E	4304734469	12436	Federal	GW	DRL	C
WONSITS VALLEY 1G-7-8-22	07	080S	220E	4304734597		Federal	OW	APD	C
WV 15G-7-8-22	07	080S	220E	4304734626		Federal	OW	APD	C
WV 11G-7-8-22	07	080S	220E	4304734627		Federal	OW	APD	C
WONSITS VALLEY 7G-7-8-22	07	080S	220E	4304734628		Federal	OW	APD	C
WONSITS VALLEY 9G-7-8-22	07	080S	220E	4304734629		Federal	OW	APD	C
WV 4W-8-8-22	08	080S	220E	4304734457		Federal	GW	APD	C
WV 1W-8-8-22	08	080S	220E	4304734467		Federal	GW	APD	C
WV 2W-8-8-22	08	080S	220E	4304734468	12436	Federal	GW	P	C
WV 3G-8-8-22	08	080S	220E	4304734596	5265	Federal	OW	TA	C
WONSITS VALLEY 5G-8-8-22	08	080S	220E	4304734612		Federal	OW	APD	C
WONSITS VALLEY 7G-8-8-22	08	080S	220E	4304734613		Federal	OW	APD	C
WV 11G-8-8-22	08	080S	220E	4304734614		Federal	OW	APD	C
WV 13G-8-8-22	08	080S	220E	4304734615		Federal	OW	APD	C
WV 3WD-18-8-22	18	080S	220E	4304734429		Federal	GW	APD	C

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the FORMER operator on: 6/2/2003

2. (R649-8-10) Sundry or legal documentation was received from the NEW operator on: 6/2/2003

3. The new company was checked on the Department of Commerce, Division of Corporations Database on: 6/19/2003

4. Is the new operator registered in the State of Utah: YES Business Number: 5292864-0151

5. If NO, the operator was contacted on: _____

6. (R649-9-2) Waste Management Plan has been received on:

IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/21/2003

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 7/21/2003

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 9/16/2003

2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 9/16/2003

3. Bond information entered in RBDMS on: n/a

4. Fee wells attached to bond in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 965-003-032

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: ESB000024

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 799446

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number 965-003-033

2. The FORMER operator has requested a release of liability from their bond on: n/a

The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

SEI (N4235) to QEP (N2460) WONSITS VALLEY UNIT

well_name	Sec	T	R	api	Entity	Lease Type	type	stat	unit_name	field	county	type	lease #	bond #
WVU 16	15	080S	210E	4304715447	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 21	16	080S	210E	4304715452	99990	State	WI	A	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 31	14	080S	210E	4304715460	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 35	14	080S	210E	4304715463	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 36	10	080S	210E	4304715464	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 41	15	080S	210E	4304715469	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 43	11	080S	210E	4304715471	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 48	10	080S	210E	4304715476	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 50	15	080S	210E	4304715477	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 32	16	080S	210E	4304716513	5265	State	OW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 53	10	080S	210E	4304720003	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 55	14	080S	210E	4304720005	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 59	14	080S	210E	4304720018	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 60	15	080S	210E	4304720019	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 62	10	080S	210E	4304720024	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 65	15	080S	210E	4304720041	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 67	15	080S	210E	4304720043	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 68	15	080S	210E	4304720047	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 72	16	080S	210E	4304720058	99990	State	WI	A	WONSITS VALLEY	710	S	UINTAH	3 ML-2237A	159261960
WVU 73	16	080S	210E	4304720066	5265	State	WI	A	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 74	16	080S	210E	4304720078	5265	State	OW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 75	16	080S	210E	4304720085	5265	State	OW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 78	16	080S	210E	4304720115	99990	State	WI	A	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 83	23	080S	210E	4304720205	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0809	UT-0969
WVU 97	11	080S	210E	4304730014	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 103	14	080S	210E	4304730021	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 104	15	080S	210E	4304730022	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 105	10	080S	210E	4304730023	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 109	15	080S	210E	4304730045	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 110	14	080S	210E	4304730046	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 112	15	080S	210E	4304730048	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 124	15	080S	210E	4304730745	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	
WVU 126	21	080S	210E	4304730796	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0804	UT-0969
WVU 128	10	080S	210E	4304730798	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 132	15	080S	210E	4304730822	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 136	21	080S	210E	4304731047	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0804	UT-0969
WVU 134	16	080S	210E	4304731118	5265	State	OW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 137	11	080S	210E	4304731523	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 28-2	11	080S	210E	4304731524	99990	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 141	16	080S	210E	4304731609	5265	State	OW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 127	16	080S	210E	4304731611	5265	State	OW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 142	16	080S	210E	4304731612	5265	State	OW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 133	15	080S	210E	4304731706	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 140	15	080S	210E	4304731707	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 40-2	10	080S	210E	4304731798	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969

SEI (N4235) to QEP (N2460) WONSITS VALLEY UNIT

well name	Sec	T	R	api	Entity	Lease Type	type	stat	unit_name	field	county	type	lease #	bond #
WVU 144	10	080S	210E	4304731807	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 143	10	080S	210E	4304731808	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 145	18	080S	220E	4304731820	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-057	UT-0969
WVU 121	14	080S	210E	4304731873	5265	Federal	OW	S	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 135-2	21	080S	210E	4304732016	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0804	UT-0969
WVU 130	22	080S	210E	4304732307	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0804	UT-0969
WVU 71-2	15	080S	210E	4304732449	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 119	21	080S	210E	4304732461	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0804	UT-0969
WVU 120	22	080S	210E	4304732462	5265	Federal	WI	A	WONSITS VALLEY	710	S	UINTAH	1 U-0804	UT-0969
WVU 54 WG	07	080S	220E	4304732821	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-22158	UT-0969
WVU 69 WG	18	080S	220E	4304732829	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-057	UT-0969
WVU 38 WG	08	080S	220E	4304732831	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-022158	UT-0969
WVU 49 WG	08	080S	220E	4304732832	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-022158	UT-0969
WVU 138 WG	18	080S	220E	4304733054	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-057	UT-0969
WVU 14 WG	12	080S	210E	4304733070	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-806	UT-0969
WVU 11 WG	12	080S	210E	4304733085	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 81 WG	24	080S	210E	4304733086	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0810	UT-0969
WVU 146 WG	19	080S	220E	4304733128	12436	Federal	GW	P	WONSITS VALLEY	630	S	UINTAH	1 U-057	UT-0969
WVU 1W-14-8-21	14	080S	210E	4304733220	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 5W-13-8-21	13	080S	210E	4304733221	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 9W-13-8-21	13	080S	210E	4304733223	12436	State	GW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-3084A	159261960
WVU 46 WG	07	080S	220E	4304733241	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-022158	UT-0969
WVU 2W-16-8-21	16	080S	210E	4304733246	12436	State	GW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 2G-16-8-21	16	080S	210E	4304733247	5265	State	OW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 9W-14-8-21	14	080S	210E	4304733269	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0807	UT-0969
WVU 7W-13-8-21	13	080S	210E	4304733270	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 1W-18-8-22	18	080S	220E	4304733294	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-057	UT-0969
WVU 11W-8-8-22	08	080S	220E	4304733295	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-022158	UT-0969
WVU 3W-8-8-22	08	080S	220E	4304733493	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-022158	UT-0969
WVU 5W-7-8-22	07	080S	220E	4304733494	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-022158	UT-0969
WVU 11W-7-8-22	07	080S	220E	4304733495	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-022158	UT-0969
WVU 13W-7-8-22	07	080S	220E	4304733496	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-022158	UT-0969
WVU 1W-7-8-22	07	080S	220E	4304733501	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-022158	UT-0969
WVU 3W-7-8-22	07	080S	220E	4304733502	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-022158	UT-0969
WV 7WRG-7-8-22	07	080S	220E	4304733503	5265	Federal	OW	P	WONSITS VALLEY	710	S	UINTAH	1 UTU-02215	UT-0969
WVU 6W-16-8-21	16	080S	210E	4304733527	12436	State	GW	P	WONSITS VALLEY	710	S	UINTAH	3 ML-2237	159261960
WVU 16W-9-8-21	09	080S	210E	4304733529	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0805	UT-0969
WVU 1W-12-8-21	12	080S	210E	4304733531	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 1W-13-8-21	13	080S	210E	4304733532	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 3W-18-8-22	18	080S	220E	4304733533	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-057	UT-0969
WVU 9W-12-8-21	12	080S	210E	4304733534	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 11W-12-8-21	12	080S	210E	4304733535	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 11W-13-8-21	13	080S	210E	4304733536	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 13W-12-8-21	12	080S	210E	4304733537	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-0806	UT-0969
WVU 13W-18-8-22	18	080S	220E	4304733538	12436	Federal	GW	P	WONSITS VALLEY	710	S	UINTAH	1 U-057	UT-0969

SEI (N4235) to QEP (N2460) WONSITS VALLEY UNIT

well_name	Sec	T	R	api	Entity	Lease Type	type	stat		unit_name	field		county	type	lease #	bond #
WVFU 6G-16-8-21	16	080S	210E	4304733564	5265	State	OW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WVFU 16G-9-8-21	09	080S	210E	4304733565	5265	Federal	OW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0805	UT-0969
WVFU 1W-21-8-21	21	080S	210E	4304733602	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-68217	UT-0969
WVFU 3W-13-8-21	13	080S	210E	4304733603	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 3W-22-8-21	22	080S	210E	4304733604	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0804	UT-0969
WVFU 3W-24-8-21	24	080S	210E	4304733605	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0810	UT-0969
WVFU 13W-13-8-21	13	080S	210E	4304733606	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 13W-14-8-21	14	080S	210E	4304733607	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WVFU 15W-13-8-21	13	080S	210E	4304733608	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 1W-24-8-21	24	080S	210E	4304733613	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0810	UT-0969
WVFU 11W-18-8-22	18	080S	220E	4304733626	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-057	UT-0969
WVFU 16W-2-8-21	02	080S	210E	4304733645	5265	State	OW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2785	159261960
WVFU 9W-2-8-21	02	080S	210E	4304733648	12436	State	GW	P		WONSITS VALLEY	2	S	UINTAH	3	ML-2785	159261960
WVFU 12W-16-8-21	16	080S	210E	4304733649	12436	State	GW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WVFU 12G-16-8-21	16	080S	210E	4304733650	5265	State	OW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WVFU 2W-10-8-21	10	080S	210E	4304733655	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 4W-11-8-21	11	080S	210E	4304733657	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 12W-10-8-21	10	080S	210E	4304733659	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 12G-10-8-21	10	080S	210E	4304733660	5265	Federal	OW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 15W-9-8-21	09	080S	210E	4304733661	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0805	UT-0969
WVFU 15G-9-8-21	09	080S	210E	4304733662	5265	Federal	OW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0805	UT-0969
WVFU 2W-13-8-21	13	080S	210E	4304733791	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 6W-13-8-21	13	080S	210E	4304733792	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 8W-13-8-21	13	080S	210E	4304733793	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 10W-1-8-21	01	080S	210E	4304733794	12436	Federal	GW	S		WONSITS VALLEY	710	S	UINTAH	1	U-0802	UT-0969
WVFU 10W-13-8-21	13	080S	210E	4304733795	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 16W-13-8-21	13	080S	210E	4304733796	12436	State	GW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-3084	159261960
WVFU 12W-7-8-22	07	080S	220E	4304733808	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-022158	UT-0969
WVFU 6W-8-8-22	08	080S	220E	4304733811	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-022158	UT-0969
WVFU 7W-8-8-22	08	080S	220E	4304733812	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-022158	UT-0969
WVFU 10W-7-8-22	07	080S	220E	4304733813	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-022158	UT-0969
WVFU 10W-8-8-22	08	080S	220E	4304733814	13450	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-022158	UT-0969
WVFU 12W-8-8-22	08	080S	220E	4304733815	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-022158	UT-0969
WVFU 14W-7-8-22	07	080S	220E	4304733816	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-022158	UT-0969
WVFU 16W-7-8-22	07	080S	220E	4304733817	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-022158	UT-0969
WVFU 6W-7-8-22	07	080S	220E	4304733828	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-022158	UT-0969
WVFU 6W-18-8-22	18	080S	220E	4304733842	12436	Federal	GW	P	C	WONSITS VALLEY	710	S	UINTAH	1	U-057	UT-0969
WVFU 6WC-18-8-22	18	080S	220E	4304733843	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-057	UT-0969
WVFU 6WD-18-8-22	18	080S	220E	4304733844	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-057	UT-0969
WVFU 5W-23-8-21	23	080S	210E	4304733860	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0809	UT-0969
WVFU 7W-23-8-21	23	080S	210E	4304733861	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0809	UT-0969
WVFU 8W-12-8-21	12	080S	210E	4304733862	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 10W-12-8-21	12	080S	210E	4304733863	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 14W-12-8-21	12	080S	210E	4304733864	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 16W-12-8-21	12	080S	210E	4304733865	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969

SEI (N4235) to QEP (N2460) WONSITS VALLEY UNIT

well_name	Sec	T	R	api	Entity	Lease Type	type	stat		unit_name	field		county	type	lease #	bond #
WVFU 1W-15-8-21	15	080S	210E	4304733902	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WVFU 1W-22-8-21	22	080S	210E	4304733903	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-06304	UT-0969
WVFU 1W-23-8-21	23	080S	210E	4304733904	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0809	UT-0969
WVFU 6W-11-8-21	11	080S	210E	4304733906	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WV 7W-22-8-21	22	080S	210E	4304733907	13230	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0804	UT-0969
WVFU 7W-24-8-21	24	080S	210E	4304733908	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0810	UT-0969
WVFU 10W-11-8-21	11	080S	210E	4304733910	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 11W-15-8-21	15	080S	210E	4304733911	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WVFU 11W-17-8-21	17	080S	210E	4304733912	13228	Federal	GW	P		WONSITS VALLEY	2	S	UINTAH	1	UTU-68219	UT-0969
WVFU 13W-11-8-21	11	080S	210E	4304733913	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 13W-15-8-21	15	080S	210E	4304733914	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WVFU 15W-10-8-21	10	080S	210E	4304733916	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 15W-15-8-21	15	080S	210E	4304733917	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WVFU 5W-14-8-21	14	080S	210E	4304733953	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WVFU 7W-14-8-21	14	080S	210E	4304733955	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WVFU 8W-11-8-21	11	080S	210E	4304733957	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 8W-14-8-21	14	080S	210E	4304733958	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WVFU 9W-15-8-21	15	080S	210E	4304733959	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WVFU 12W-13-8-21	13	080S	210E	4304733961	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WVFU 14W-13-8-21	13	080S	210E	4304733962	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WVFU 15W-14-8-21	14	080S	210E	4304733963	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WVFU 2W-18-8-22	18	080S	220E	4304733986	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-057	UT-0969
WV 8W-18-8-22	18	080S	220E	4304733989	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-9617	UT-0969
WVFU 10W-18-8-22	18	080S	220E	4304733991	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-057	UT-0969
WVFU 12W-18-8-22	18	080S	220E	4304733993	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-057	UT-0969
WV 14W-18-8-22	18	080S	220E	4304733995	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-057	UT-0969
WVFU 6W-1-8-21	01	080S	210E	4304734008		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	U-0802	UT-0969
WVFU 8W-1-8-21	01	080S	210E	4304734009	12436	Federal	GW	DRL	C	WONSITS VALLEY	710	S	UINTAH	1	U-0802	UT-0969
WV 10G-2-8-21	02	080S	210E	4304734035	5265	State	OW	P		WONSITS VALLEY	2	S	UINTAH	3	ML-2785	159261960
WV 14G-2-8-21	02	080S	210E	4304734036	5265	State	OW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2785	159261960
WV 4W-17-8-22	17	080S	220E	4304734038	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-055	UT-0969
WV 16W-1-8-21	01	080S	210E	4304734047		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	U-0802	UT-0969
WV 13G-2-8-21	02	080S	210E	4304734068	5265	State	OW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2785-A	159261960
WV 5G-16-8-21	16	080S	210E	4304734107	5265	State	OW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WV 12G-1-8-21	01	080S	210E	4304734108	5265	Federal	OW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0802	UT-0969
WV 2W-14-8-21	14	080S	210E	4304734140	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	U-0969
GH 2W-21-8-21	21	080S	210E	4304734141	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0804	U-0969
WV 2W-23-8-21	23	080S	210E	4304734142	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0809	U-0969
GH 3W-21-8-21	21	080S	210E	4304734143	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0804	U-0969
WV 4W-13-8-21	13	080S	210E	4304734144	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
GH 4W-21-8-21	21	080S	210E	4304734145	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0804	UT-0969
WV 4W-22-8-21	22	080S	210E	4304734146	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0804	U-0969
WV 16W-11-8-21	11	080S	210E	4304734155	12436	Federal	GW	S		WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 3W-19-8-22	19	080S	220E	4304734187	12436	Federal	GW	P		WONSITS VALLEY	630	S	UINTAH	1	UTU-057	UT-0969
WV 4W-23-8-21	23	080S	210E	4304734188	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-809	UT-0969

SEI (N4235) to QEP (N2460) WONSITS VALLEY UNIT

well_name	Sec	T	R	api	Entity	Lease Type	type	stat		unit_name	field		county	type	lease #	bond #
WV 6W-23-8-21	23	080S	210E	4304734189	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-809	UT-0969
WV 11W-16-8-21	16	080S	210E	4304734190	12436	State	GW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WV 13W-16-8-21	16	080S	210E	4304734191	12436	State	GW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237A	159261960
WV 14W-16-8-21	16	080S	210E	4304734192	12436	State	GW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WV 15W-16-8-21	16	080S	210E	4304734224	12436	State	GW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WV 16W-16-8-21	16	080S	210E	4304734225	12436	State	GW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237A	159261960
WV 2W-15-8-21	15	080S	210E	4304734242	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 2W-22-8-21	22	080S	210E	4304734243	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0804	UT-0969
WV 4W-14-8-21	14	080S	210E	4304734244	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WV 6W-12-8-21	12	080S	210E	4304734245	12436	Federal	GW	TA		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WV 7W-15-8-21	15	080S	210E	4304734246	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	U-0807	UT-0969
WV 8W-15-8-21	15	080S	210E	4304734247	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 12W-12-8-21	12	080S	210E	4304734248	12436	Federal	GW	TA		WONSITS VALLEY	710	S	UINTAH	1	U-0806	UT-0969
WV 14W-15-8-21	15	080S	210E	4304734249	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 16W-10-8-21	10	080S	210E	4304734250	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 16W-15-8-21	15	080S	210E	4304734251	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 1W-11-8-21	11	080S	210E	4304734263		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 2W-11-8-21	11	080S	210E	4304734264		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 2W-12-8-21	12	080S	210E	4304734265	12436	Federal	GW	DRL	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 3W-11-8-21	11	080S	210E	4304734266		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 3W-12-8-21	12	080S	210E	4304734267		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 4W-12-8-21	12	080S	210E	4304734268		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 5W-11-8-21	11	080S	210E	4304734269		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 5W-12-8-21	12	080S	210E	4304734270	12436	Federal	GW	DRL	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 6W-14-8-21	14	080S	210E	4304734271	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 9W-11-8-21	11	080S	210E	4304734274		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 10W-14-8-21	14	080S	210E	4304734275	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 11W-11-8-21	11	080S	210E	4304734276		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 11W-14-8-21	14	080S	210E	4304734277	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 12W-11-8-21	11	080S	210E	4304734278		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 12W-14-8-21	14	080S	210E	4304734279	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 14W-11-8-21	11	080S	210E	4304734280		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 14W-14-8-21	14	080S	210E	4304734281	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 15W-11-8-21	11	080S	210E	4304734282		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0806	UT-0969
WV 16W-14-8-21	14	080S	210E	4304734283	5265	Federal	OW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 1W-16-8-21	16	080S	210E	4304734288		State	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WV 3W-15-8-21	15	080S	210E	4304734289		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 3W-16-8-21	16	080S	210E	4304734290		State	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WV 4W-15-8-21	15	080S	210E	4304734291		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 4W-16-8-21	16	080S	210E	4304734292		State	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WV 5W-15-8-21	15	080S	210E	4304734293		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 6W-15-8-21	15	080S	210E	4304734294	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WV 10W-15-8-21	15	080S	210E	4304734295	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0807	UT-0969
WVU 5W-16-8-21	16	080S	210E	4304734321	12436	State	GW	DRL		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	04127294
WV 7W-16-8-21	16	080S	210E	4304734322	12436	State	GW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960

SEI (N4235) to QEP (N2460) WONSITS VALLEY UNIT

well_name	Sec	T	R	api	Entity	Lease Type	type	stat		unit_name	field		county	type	lease #	bond #
WV 8W-16-8-21	16	080S	210E	4304734323		State	GW	APD		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WV 9W-16-8-21	16	080S	210E	4304734325	12436	State	GW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WV 10W-16-8-21	16	080S	210E	4304734326	12436	State	GW	P		WONSITS VALLEY	710	S	UINTAH	3	ML-2237	159261960
WVU 4W-24-8-21	24	080S	210E	4304734330	12436	Federal	GW	P		WONSITS VALLEY	710	S	UINTAH	1	UTU-0810	U-0969
WVU 2W-24-8-21	24	080S	210E	4304734337		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0810	UT-0969
WVU 6W-24-8-21	24	080S	210E	4304734338		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0810	UT-0969
WVU 8W-23-8-21	23	080S	210E	4304734339		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0809	UT-0969
WVU 8W-24-8-21	24	080S	210E	4304734340	12436	Federal	GW	P	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0810	UT-0969
WV 2G-7-8-22	07	080S	220E	4304734355		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	UT-0969
WV 2W-7-8-22	07	080S	220E	4304734356		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	UT-0969
WV 4G-8-8-22	08	080S	220E	4304734357		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	UT-0969
WV 4WA-18-8-22	18	080S	220E	4304734358		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-057	UT-0969
WV 4WD-18-8-22	18	080S	220E	4304734359		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-057	UT-0969
WV 13WA-18-8-22	18	080S	220E	4304734361		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-057	UT-0969
WV 13WD-18-8-22	18	080S	220E	4304734362		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-057	UT-0969
WV 2WA-18-8-22	18	080S	220E	4304734426		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-057	UT-0969
WV 2WD-18-8-22	18	080S	220E	4304734427		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-057	UT-0969
WV 3WA-18-8-22	18	080S	220E	4304734428		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-057	UT-0969
WV 3WD-18-8-22	18	080S	220E	4304734429		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-057	UT-0969
WV 4W-8-8-22	08	080S	220E	4304734457		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	UT-0969
WV 1W-8-8-22	08	080S	220E	4304734467		Federal	GW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	UT-0969
WV 2W-8-8-22	08	080S	220E	4304734468	12436	Federal	GW	P	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	UT-0969
WV 8W-7-8-22	07	080S	220E	4304734469	12436	Federal	GW	DRL	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	UT-0969
WV 8W-22-8-21	22	080S	210E	4304734564	12436	Federal	GW	P	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-0804	U-0969
WV 3G-8-8-22	08	080S	220E	4304734596	5265	Federal	OW	TA	C	WONSITS VALLEY	710	S	UINTAH	1	U-022158	U-0969
WONSITS VALLEY 1G-7-8-22	07	080S	220E	4304734597		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	U-022158	U-0969
WONSITS VALLEY 5G-8-8-22	08	080S	220E	4304734612		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	U-0969
WONSITS VALLEY 7G-8-8-22	08	080S	220E	4304734613		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-76508	U-0969
WV 11G-8-8-22	08	080S	220E	4304734614		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	U-0969
WV 13G-8-8-22	08	080S	220E	4304734615		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	U-0969
WV 15G-7-8-22	07	080S	220E	4304734626		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	U-0969
WV 11G-7-8-22	07	080S	220E	4304734627		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	U-0969
WONSITS VALLEY 7G-7-8-22	07	080S	220E	4304734628		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	U-0969
WONSITS VALLEY 9G-7-8-22	07	080S	220E	4304734629		Federal	OW	APD	C	WONSITS VALLEY	710	S	UINTAH	1	UTU-02215	U-0969
WV EXT 2W-17-8-21	17	080S	210E	4304734928	12436	Federal	GW	DRL	C	WONSITS VALLEY	610	S	UINTAH	1	UTU-68219	UT-1237



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

999 18th STREET - SUITE 300

DENVER, CO 80202-2466

<http://www.epa.gov/region08>

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Stephanie Tomkinson
QEP Uinta Basin, Inc.
1050 17th Street
Suite 500
Denver, CO 80202

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

Re: Underground Injection Control Program
Permit for the Wonsits Valley 7WRG-7-8-22 Well
Uintah County, UT
EPA Permit No. UT20945-06156

Dear Ms. Tomkinson:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Wonsits Valley 7WRG-7-8-22, in Uintah County, Utah. A Statement of Basis, which discusses development of the conditions and requirements of the Permit, also is included.

The Public Comment period ended July 25, 2003. There were no comments on the Draft Permit received during the Public Notice period, and therefore the Final Permit becomes effective on the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect on the date that this permit becomes effective.

Please note that under the terms of the Final Permit, you are authorized only to construct the proposed injection well, and must fulfill the "Prior to Commencing Injection" requirements of the Permit, Part II Section C Subpart 1 and obtain written Authorization to Inject prior to commencing injection. It is your responsibility to be familiar with and to comply with all provisions of the Final Permit.

The permit and the authorization to inject are issued for the operating life of the well unless terminated (Part III, Section B). The EPA will review this permit at least every five (5) years to determine whether action under 40 CFR § 144.36(a) is warranted.

RECEIVED**SEP 29 2003**DIV. OF OIL, GAS & MINING
Printed on Recycled Paper

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Chuck Tinsley of my staff at (303) 312-6266, or toll-free at (800) 227-8917, ext. 6266.

Sincerely,

Carl S. Campbell for

Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
Statement of Basis
Groundwater Section Guidance 34
Groundwater Section Guidance 35
Groundwater Section Guidance 37
Groundwater Section Guidance 39

cc: Ms. Maxine Natchees
Uintah and Ouray Business Council

Ms. Elaine Willie
Ute Indian Tribe

Mr. Chester Mills
Bureau of Indian Affairs, U&O Agency

Mr. Gil Hunt
State of Utah, DOGM

Mr. Jerry Kenczka
Bureau of Land Management



**UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT**

PREPARED: September 2003

Permit No. UT20945-06156

Class II Enhanced Oil Recovery Injection Well

**Wonsits Valley 7WRG-7-8-22
Uintah County, UT**

Issued To

QEP Uinta Basin, Inc.

180 East 100 South
Salt Lake City, UT 84145-0433

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Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

QEP Uinta Basin, Inc.
180 East 100 South
Salt Lake City, UT 84145-0433

is authorized to construct and to operate the following Class II injection well or wells:

Wonsits Valley 7WRG-7-8-22
2036 FNL x 2291 FEL, SWNE S7, T8S, R22E
Uintah County, UT

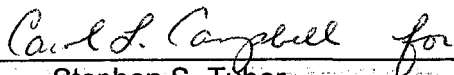
Permit requirements herein are based on regulations found in 40 CFR Parts 124, 144, 146, and 147 which are in effect on the Effective Date of this Permit.

This Permit is based on representations made by the applicant and on other information contained in the Administrative Record. Misrepresentation of information or failure to fully disclose all relevant information may be cause for termination, revocation and reissuance, or modification of this Permit and/or formal enforcement action. This Permit will be reviewed periodically to determine whether action under 40 CFR 144.36(a) is required.

This Permit is issued for the life of the well unless modified, revoked and reissued, or terminated under 40 CFR 144.39 or 144.40. This Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for this program is delegated to an Indian Tribe or a State. Upon the effective date of delegation, all reports, notifications, questions and other compliance actions shall be directed to the Indian tribe or State Program Director or designee.

Issue Date: SEP 23 2003

Effective Date SEP 23 2003



Stephen S. Tuber
Assistant Regional Administrator*
Office of Partnerships and Regulatory Assistance

*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

PART II. SPECIFIC PERMIT CONDITIONS

Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

1. Casing and Cement.

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

2. Injection Tubing and Packer.

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

3. Sampling and Monitoring Devices.

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
 - (i) on the injection tubing; and
 - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

4. Well Logging and Testing

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

5. Postponement of Construction or Conversion

The Permittee shall complete well construction within one year of the Effective Date of this Permit. Authorization to construct and operate shall expire and the Permit may be terminated under 40 CFR 144.40 if the well has not been constructed within one year of the Effective Date of the Permit unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate can be reissued.

6. Workovers and Alterations

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to the injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

Section B. MECHANICAL INTEGRITY

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer; and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore.

1. Demonstration of Mechanical Integrity (MI).

The operator shall demonstrate MI prior to commencing injection and periodically thereafter.

At least once every five (5) years during the life of the well Part I (Internal) MI shall be demonstrated. If a test other than approved cementing records or cement bond log is used to demonstrate Part II (External) MI, Part II MI also shall be demonstrated at least once every five (5) years.

The operator shall demonstrate Part I (Internal) MI after workovers affecting the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

2. Mechanical Integrity Test Methods and Criteria

EPA-approved methods shall be used to demonstrate mechanical integrity. A current copy of Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are provided at issuance of this Permit.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

3. Notification Prior to Testing.

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

4. Loss of Mechanical Integrity.

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit), and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

Section C. WELL OPERATION

INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.

Injection is approved under the following conditions:

1. Requirements Prior to Commencing Injection.

Injection operation may commence only after all construction and pre-injection requirements herein have been met and approved. Except for new wells authorized by an Area Permit under 40 CFR 144.33 (c), the Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
 - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
 - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

2. Injection Interval.

Injection is permitted only within the approved injection interval listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

3. Injection Pressure Limitation

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injected or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permittee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

4. Injection Volume Limitation.

Injection volume is limited to the total volume specified in APPENDIX C.

5. Injection Fluid Limitation.

Injected fluids are limited to those identified in 40 CFR 144.6(b)(2) as fluids used for enhanced recovery of oil or natural gas, including those which are brought to the surface in connection with conventional oil or natural gas production that may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). The Permittee shall provide a listing of the sources of injected fluids in accordance with the reporting requirements in Part II Section D Paragraph 4 and APPENDIX D of this Permit.

6. Tubing-Casing Annulus (TCA)

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS

1. Monitoring Parameters, Frequency, Records and Reports.

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

2. Monitoring Methods.

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.

- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261; or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

3. Records Retention.

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The Permittee shall retain records at the location designated in APPENDIX D.

4. Annual Reports.

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

Section E. PLUGGING AND ABANDONMENT

1. Notification of Well Abandonment, Conversion or Closure.

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning the well, 2) converting to a non-injection well, or 3) in the case of an Area Permit, before closure of the project.

2. Well Plugging Requirements

Prior to abandonment, the injection well shall be plugged with cement in a manner which prevents the movement of fluids into or between underground sources of drinking water. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director. The well shall be plugged in accordance with the approved plugging and abandonment plan and with 40 CFR 146.10.

3. Approved Plugging and Abandonment Plan.

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

4. Forty Five (45) Day Notice of Plugging and Abandonment.

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning the well and provide notice of any anticipated change to the approved plugging and abandonment plan.

5. Plugging and Abandonment Report.

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

6. Inactive Wells.

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;
- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and

- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

PART III. CONDITIONS APPLICABLE TO ALL PERMITS

Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

Section B. CHANGES TO PERMIT CONDITIONS

1. Modification, Reissuance, or Termination.

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

2. Conversions.

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

3. Transfer of Permit.

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

4. Permittee Change of Address.

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

5. Construction Changes, Workovers, Logging and Testing Data

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

Section C. SEVERABILITY

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

Section D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

Section E. GENERAL PERMIT REQUIREMENTS

1. Duty to Comply.

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

2. Duty to Reapply.

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

3. Need to Halt or Reduce Activity Not a Defense.

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

4. Duty to Mitigate.

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

5. Proper Operation and Maintenance.

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

6. Permit Actions.

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

7. Property Rights.

This Permit does not convey any property rights of any sort, or any exclusive privilege.

8. Duty to Provide Information.

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

9. Inspection and Entry.

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

10. Signatory Requirements.

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

11. Reporting Requirements.

- (a) **Planned changes.** The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) **Anticipated noncompliance.** The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) **Monitoring Reports.** Monitoring results shall be reported at the intervals specified in this Permit.
- (d) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) **Twenty-four hour reporting.** The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
 - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
 - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website <http://www.nrc.uscg.mil/index.htm>.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

Section F. FINANCIAL RESPONSIBILITY

1. Method of Providing Financial Responsibility.

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

2. Insolvency.

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

- (c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

APPENDIX A

WELL CONSTRUCTION REQUIREMENTS

FORMATION DATA:

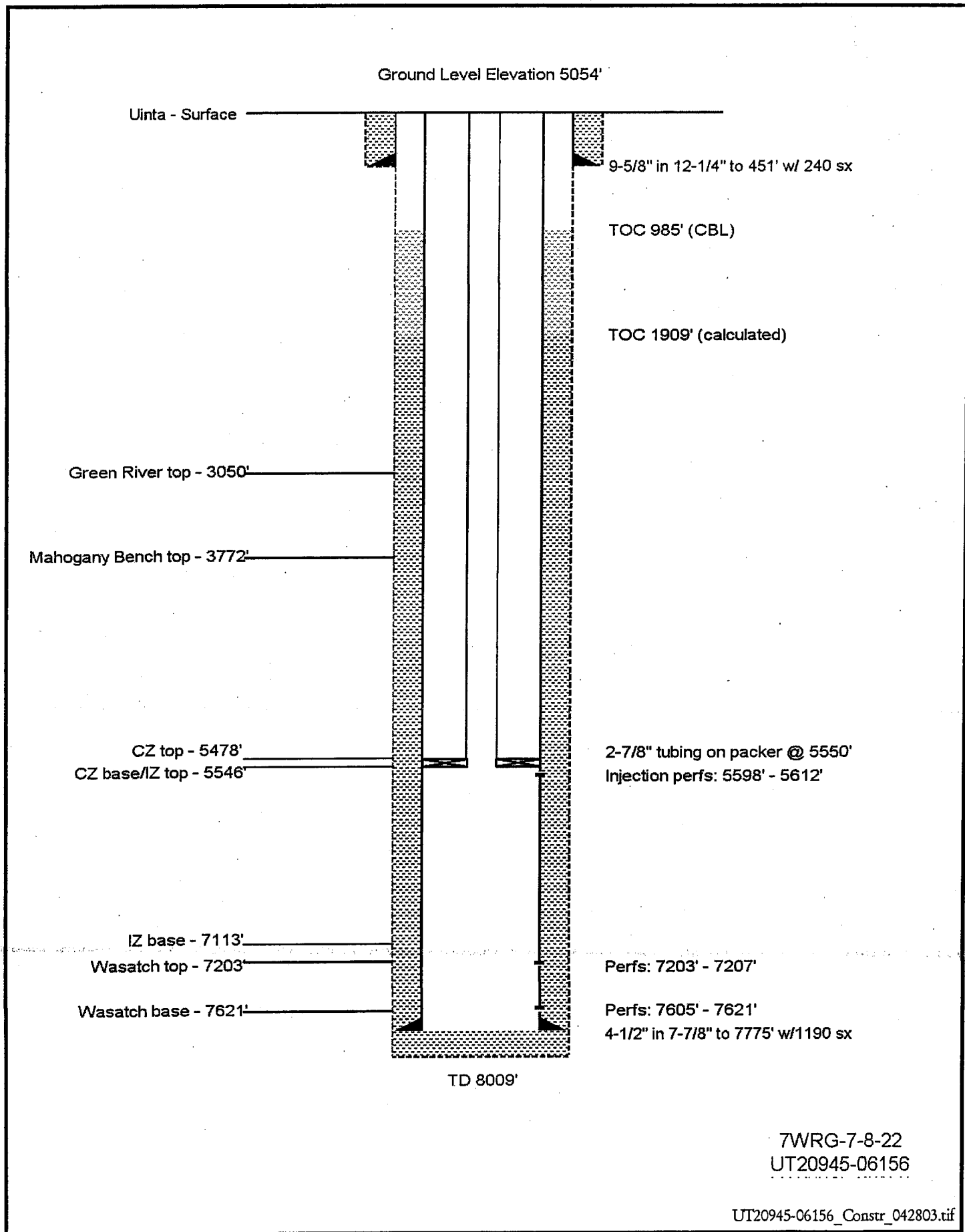
- * Base of USDWs: Top of Green River Formation at 3050'
- * Confining Zone: Green River Formation interval between 5478' - 5546'.
- * Permitted Injection Zone: Green River Formation interval between 5546' - 7113'.
- * Original Authorized Injection perforations: 5598' - 5612'.

WELL CONSTRUCTION:

- * 9-5/8" 36# Surface casing in 12-1/4" hole to 451' with 240 sx cement
- * 4-1/2" 11.6# Longstring casing in 7-7/8" hole to 7775' with 1190 sx cement
- * Perforations: Green River G-1 zone from 5598' - 5612'
- * 2-7/8" injection tubing set in a packer at 5550'
- * CIBP set in 4-1/2" casing at 7150' to isolate Wasatch perms (7103'-7107' and 7605'-7321')
- * Cement on top of CIBP to 7113'
- * Well TD at 8009'

WELLHEAD EQUIPMENT:

- * Sampling tap located to enable sampling fluid in the injection tubing.
- * Sampling tap located to enable sampling fluid in the 2-7/8" x 4-1/2" annulus.
- * Pressure gauge isolated by 1/2" FIP shut-off valve or quick-connect and located to enable reading the pressure on the injection tubing.
- * Pressure gauge isolated by 1/2" FIP shut-off valve or quick-connect and located to enable reading the pressure in the 2-7/8 x 4-1/2" annulus.
- * Pressure-actuated shut off device located on the injection line, and set to prevent injection operations from exceeding the maximum allowable injection pressure.
- * Non-resettable cumulative volume recorder located on the injection line.



APPENDIX B

LOGGING AND TESTING REQUIREMENTS

Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

WELL NAME: Wonsits Valley 7WRG-7-8-22	
TYPE OF LOG	DATE DUE
TEMP	At least once every five (5) years as a demonstration of Part II Mechanical Integrity
RATS	Prior to beginning injection as a demonstration of Part II Mechanical Integrity

Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

WELL NAME: Wonsits Valley 7WRG-7-8-22	
TYPE OF TEST	DATE DUE
Pore Pressure	Prior to beginning injection
Standard Annulus Pressure	Prior to beginning injection

APPENDIX C

OPERATING REQUIREMENTS

MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
	ZONE 1 (Upper)
Wonsits Valley 7WRG-7-8-22	1,674

INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: Wonsits Valley 7WRG-7-8-22			
FORMATION NAME	APPROVED INJECTION INTERVAL (GL, ft)		FRACTURE GRADIENT (psi/ft)
	TOP	BOTTOM	
Green River	5,546.00 - 7,113.00		0.733

ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. Of this permit.

MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

APPENDIX D

MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

OBSERVE MONTHLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)

ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH

ANNUALLY	
REPORT	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and averaged annulus pressure(s) (psig)
	Each month's averaged injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

Records of all monitoring activities must be retained and made available for inspection at the following location:

**QEP Uinta Basin, Inc.
11002 East 17500 South
Vernal, UT 84078**

APPENDIX E

PLUGGING AND ABANDONMENT REQUIREMENTS

Perform Mechanical Integrity Test

Pull tubing and packer.

Set Cast Iron Bridge Plug (CIBP) above injection perfs at 5550 ft.

Place 35 ft of cement on top of CIBP.

Place cement plug in the interval 3722 ft - 3924 ft.

Tag top of plug and report location

Cut and pull casing 4-1/2 in casing from approx. 3050 ft (base of USDW)

Place cement plug inside and outside of 4-1/2 in casing in the interval 3000 ft - 3050 ft.

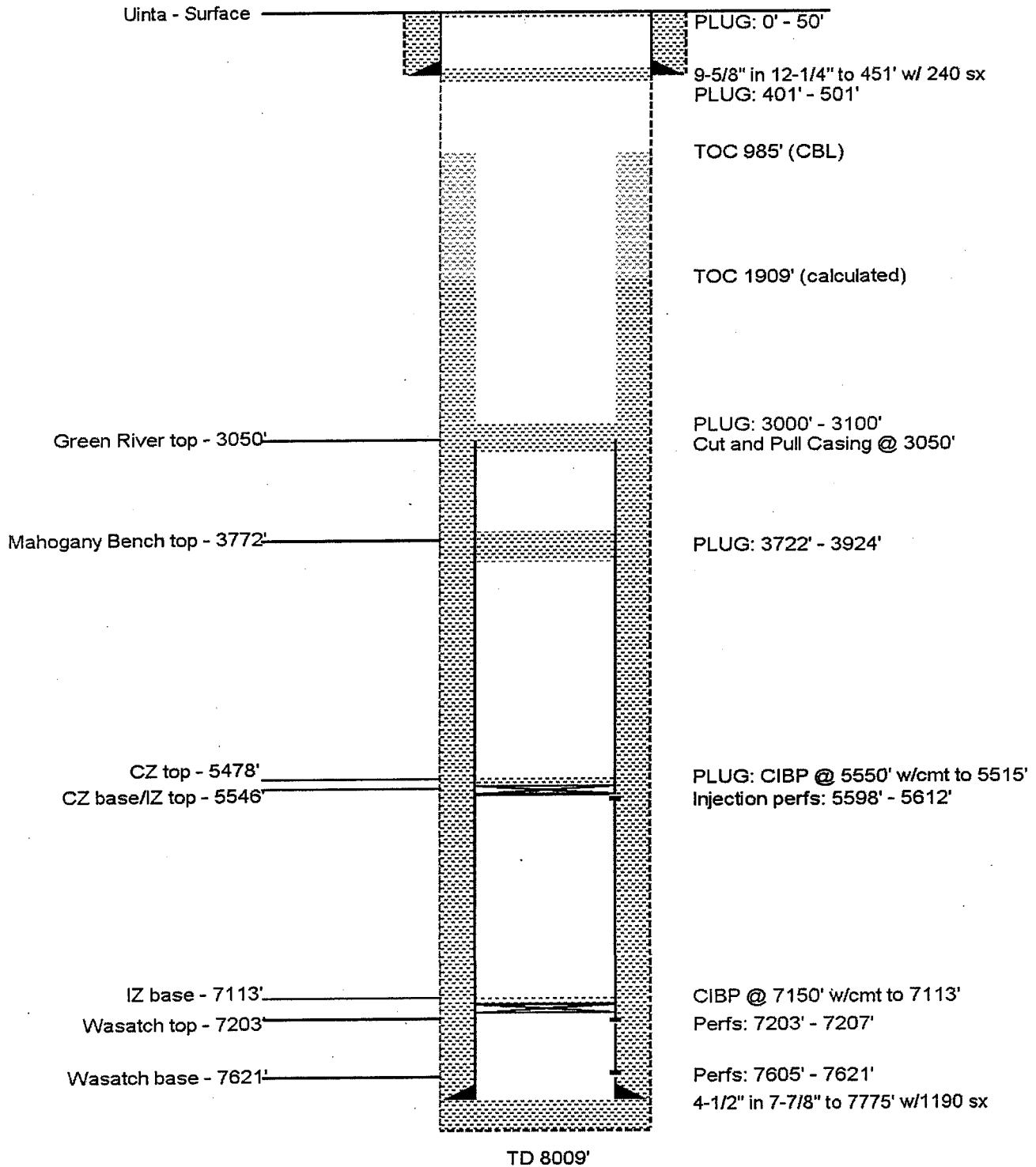
Tag top of plug and report location.

Place cement plug across base of surface casing in the interval 401 ft - 501 ft.

Tag top of plug and report location

Place cement plug at the surface from 50 ft to land surface.

Ground Level Elevation 5054'



7WRG-7-8-22
UT20945-06156

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APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

No corrective action is necessary. All wells in the area of review have been cemented in a manner which will prevent injection fluids from contaminating USDWs.

STATEMENT OF BASIS

**QEP UINTA BASIN, INC.
WONSITS VALLEY 7WRG-7-8-22
UINTAH COUNTY, UT**

EPA PERMIT NO. UT20945-06156

CONTACT: Chuck Tinsley
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
999 18th Street, Suite 300
Denver, Colorado 80202-2466
Telephone: 1-800-227-8917 ext. 6266

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

UIC Permits specify the conditions and requirements for construction, operation, monitoring and reporting, and plugging of injection wells to prevent the movement of fluids into underground sources of drinking water (USDWs). Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the conversion and operation of a "new" injection well or wells governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

PART I. General Information and Description of Facility

QEP Uinta Basin, Inc.
180 East 100 South
Salt Lake City, UT 84145-0433

on

December 19, 2002

submitted an application for an Underground Injection Control (UIC) Program Permit for the following injection well or wells:

Wonsits Valley 7WRG-7-8-22
2036 FNL x 2291 FEL, SWNE S7, T8S, R22E
Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The Permit application, including the required information and data necessary to issue a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed by EPA and determined to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

TABLE 1.1		
WELL STATUS / DATE OF OPERATION		
CONVERSION WELLS		
Well Name	Well Status	Date of Operation
Wonsits Valley 7WRG-7-8-22	Conversion	N/A

PART II. Permit Considerations (40 CFR 146.24)

Geologic Setting (TABLE 2.1)

THE UINTA FORMATION (0'-3050')

The Uinta Formation is calcareous shale, some limestone, claystone, siltstone, and sandstone. It is a fluvial facies in the eastern and western ends of the basin that interfingers with rocks similar in appearance to the overlying Duchesne River Formation. It grades laterally into thinner bedded calcareous lake deposits in the center of the basin.

The Uinta is very low to very high permeability. Largest primary intergranular permeability of the sandstone seems to be about the same as that of the median for sandstone in the Duchesne River Formation. Most of the formation is finer grained, and, therefore, of lower primary permeability than the Duchesne River Formation. Permeability is greatly increased where the Uinta Formation is fractured. In most of the area, the formation yields only a few gallons per minute of saline water to wells and springs. In some areas the water has high fluoride and boron concentrations. Locally, flowing wells yield fresh to slightly saline water. In the fluvial facies, particularly where the rocks are fractured, yields are larger.

THE GREEN RIVER FORMATION (3050'-7203')

The Green River Formation is mostly lacustrine shale that contains some limestone, marlstone, and siltstone. The formation includes beds of oil shale and of carbonate evaporite. The Green River interfingers with both the overlying Uinta and the underlying Wasatch Formations, as well as laterally with other formations near the edges of the basin.

The Green River Formation is very low to low permeability except where fractured. Sandstones near oil-shale beds have values of transmissivity from 0.9 to 2.4 sq ft/day. In most of the basin the formation yields only saline or briny water, though in and near the areas of outcrop in the southern part of the basin the water is fresh to slightly saline, and in the area of the outcrop near Strawberry Reservoir the water is fresh where the formation is fractured.

THE WASATCH FORMATION (7203'-7621')

In most of the basin, the Wasatch Formation is mainly lacustrine shale, sandstone, and conglomerate, it interfingers with the overlying and underlying formations and laterally with the North Horn, Carrant Creek, and Green River Formations. The Wasatch outcrops only in the far eastern end of the northern Uinta Basin and in the canyons of deeply incised streams in the southern Uinta Basin.

The Wasatch Formation is very low to low permeability except where fractured. In the Greater Altamont-Bluebell oil field, the Wasatch sands reportedly have only 4 to 5 percent porosity, but are permeable because of fracturing. Much of the water produced with petroleum is moderately saline to very saline; generally, however, the water is less mineralized than is water from the Green River Formation.

TABLE 2.1
GEOLOGIC SETTING
Wonsits Valley 7WRG-7-8-22

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uinta	0.00	3,050.00	< 10,000.00	The Uinta Formation is calcareous shale, some limestone, claystone, siltstone, and sandstone.
Green River	3,050.00	7,203.00	10,000.00 - 60,000.00	The Green River Formation is mostly lacustrine shale that contains some limestone, marlstone, and siltstone.
Wasatch	7,203.00	8,009.00	> 10,000.00	In most of the basin, the Wasatch Formation is mainly lacustrine shale, sandstone, and conglomerate.

Proposed Injection Zone(s) (TABLE 2.2)

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by the confining zone which is free of known open faults or fractures within the Area of Review.

The injection zone is a portion of the Green River Formation in the interval from 5546 ft to 7113 ft below land surface..

The Green River Formation is mostly lacustrine shale that contains some limestone, marlstone, and siltstone. The formation includes beds of oil shale and of carbonate evaporite. The Green River interfingers with both the overlying Uinta and the underlying Wasatch Formations, as well as laterally with other formations near the edges of the basin.

The Green River Formation is very low to low permeability except where fractured. Sandstones near oil-shale beds have values of transmissivity from 0.9 to 2.4 sq ft/day. In most of the basin the formation yields only saline or briny water, though in and near the areas of outcrop in the southern part of the basin the water is fresh to slightly saline, and in the area of the outcrop near Strawberry Reservoir the water is fresh where the formation is fractured.

TABLE 2.2
INJECTION ZONES
Wonsits Valley 7WRG-7-8-22

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)		Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River	5,546.00	7,113.00	43,000.00	50,000.00	0.733		E

* C - Currently Exempted
E - Previously Exempted
P - Proposed Exemption
N/A - Not Applicable

Confining Zone(s) (TABLE 2.3)

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The confining zone is a portion of the Green River Formation in the interval from 5478 ft to 5546 ft below land surface.

The Green River Formation is mostly lacustrine shale that contains some limestone, marlstone, and siltstone. The formation includes beds of oil shale and of carbonate evaporite. The Green River interfingers with both the overlying Uinta and the underlying Wasatch Formations, as well as laterally with other formations near the edges of the basin.

The Green River Formation is very low to low permeability except where fractured. Sandstones near oil-shale beds have values of transmissivity from 0.9 to 2.4 sq ft/day. In most of the basin the formation yields only saline or briny water, though in and near the areas of outcrop in the southern part of the basin the water is fresh to slightly saline, and in the area of the outcrop near Strawberry Reservoir the water is fresh where the formation is fractured.

TABLE 2.3
CONFINING ZONES
Wonsits Valley 7WRG-7-8-22

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River	The Green River Formation is mostly lacustrine shale that contains some limestone, marlstone, and siltstone.	5,478.00	5,546.00

Underground Sources of Drinking Water (USDWs) (TABLE 2.4)

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

In the area surrounding this injection well, USDWs occur in the Uinta formation in the interval between land surface and 3050 ft.

The Uinta Formation is calcareous shale, some limestone, claystone, siltstone, and sandstone. It is a fluvial facies in the eastern and western ends of the basin that interfingers with rocks similar in appearance to the overlying Duchesne River Formation. It grades laterally into thinner bedded calcareous lake deposits in the center of the basin.

The Uinta is very low to very high permeability. Largest primary intergranular permeability of the sandstone seems to be about the same as that of the median for sandstone in the Duchesne River Formation. Most of the formation is finer grained, and, therefore, of lower primary permeability than the Duchesne River Formation. Permeability is greatly increased where the Uinta Formation is fractured. In most of the area, the formation yields only a few gallons per minute of saline water to wells and springs. In some areas the water has high fluoride and boron concentrations. Locally, flowing wells yield fresh to slightly saline water. In the fluvial facies, particularly where the rocks are fractured, yields are larger.

TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
Wonsits Valley 7WRG-7-8-22

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uinta	The Uinta Formation is calcareous shale, some limestone, claystone, siltstone, and sandstone.	0.00	3,050.00	< 10,000.00

PART III. Well Construction (40 CFR 146.22)

TABLE 3.1
WELL CONSTRUCTION REQUIREMENTS
Wonsits Valley 7WRG-7-8-22

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
Longstring	7.88	4.50	0.00 - 7,775.00	1,909.00 - 8,009.00
Surface	12.25	9.63	0.00 - 451.00	0.00 - 451.00

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

Casing and Cementing (TABLE 3.1)

The construction plan for this well proposed for conversion to an injection well was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction and conversion details for this well are shown in TABLE 3.1.

Tubing and Packer

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

Tubing-Casing Annulus (TCA)

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

Monitoring Devices

The permittee will be required to install and maintain wellhead equipment allowing for monitoring pressures and providing access for sampling the injected fluid. This equipment includes: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) pressure gauges attached to the injection tubing and the TCA to monitor the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)

TABLE 4.1
AOR AND CORRECTIVE ACTION

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
WFU #4	Producer	Yes	5,516.00	4,544.00	No
WFU #90	Producer	Yes	5,722.00	4,262.00	No
WFU #91	Producer	Yes	5,719.00	4,270.00	No
WFU #96	Producer	Yes	5,595.00	4,134.00	No

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

Area Of Review

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

The applicant has supplied information showing that four wells exist within the area of review. These wells are listed below:

Wonsits Federal Unit #4
Wonsits Federal Unit # 90
Wonsits Federal Unit # 91
Wonsits Federal Unit # 96

Each of these wells was plugged in a manner to prevent movement of injected fluids into USDWs.

Corrective Action Plan

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

TABLE 4.1 lists the wells in the AOR, and shows the well type, operating status, depth, top of casing cement and whether a CAP is required for this well.

Each of the wells within the area of review has been cased, cemented, and plugged in a manner to prevent injection fluids from contaminating USDWs. No corrective action is necessary as a result of this permit.

PART V. Well Operation Requirements (40 CFR 146.23)

TABLE 5.1
INJECTION ZONE PRESSURES
Wonsits Valley 7WRG-7-8-22

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River	5,598.00	0.733	1,670

Approved Injection Fluid

The approved injection fluid will be limited to a produced water mixture which meets requirements pursuant to 40 CFR § 144.6(b). The well also may be used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are not approved.

Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit,

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

FP = formation fracture pressure (measured at surface)

fg = fracture gradient (from submitted data or tests)

sg = specific gravity (of injected fluid)

d = depth to top of injection zone (or top perforation)

The MAIP was calculated using the depth of the top of the perforations.

Injection Volume Limitation

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

There is no volume limit established for the operation of this injection well.

Mechanical Integrity (40 CFR 146.8)

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer; and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A TCA pressure test must be performed at least once every five (5) years to demonstrate continued tubing, packer, and casing integrity. TCA pressure must be monitored on a weekly basis to ensure the continued integrity of the tubing and packer system.

The Permit prohibits injection into a well which lacks mechanical integrity.

Cement bond logs for this injection well do not show the minimum cement bond required through the approved confining zone. Therefore, an alternate method of proving external mechanical integrity must be shown.

Prior to obtaining approval to commence injection, the well must pass a Radioactive Tracer Survey to show external mechanical integrity. Subsequent to this demonstration, Temperature surveys will provide the assurance of external mechanical integrity, and will be performed at least once every five years.

PART VI. Monitoring, Recordkeeping and Reporting Requirements

Injection Well Monitoring Program

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, injection flow rate and cumulative fluid volume, and the maximum and average value for each must be determined for each month. This information is required to be reported annually as part of the Annual Report to the Director.

PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)

Plugging and Abandonment Plan

Prior to abandonment, this well must be plugged with cement in a manner which will not allow the movement of fluids either into or between USDWs. The plugging and abandonment plan is described in Appendix E of this Statement of Basis.

PART VIII. Financial Responsibility (40 CFR 144.52)

Demonstration of Financial Responsibility

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

Surety Bond, received April 11, 2003

Evidence of continuing financial responsibility is required to be submitted to the Director annually.



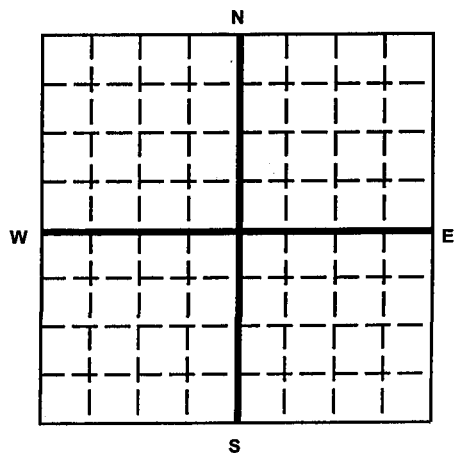
United States Environmental Protection Agency
Washington, DC 20460

Application To Transfer Permit

Name and Address of Existing Permittee

Name and Address of Surface Owner

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

County

Permit Number

Surface Location Description

____ 1/4 of ____ 1/4 of ____ 1/4 of ____ 1/4 of Section ____ Township ____ Range ____

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location ____ ft. frm (N/S) ____ Line of quarter section
and ____ ft. from (E/W) ____ Line of quarter section.

Well Activity

Well Status

Type of Permit

____ Class I

____ Operating

____ Individual

____ Class II

____ Modification/Conversion

____ Area

____ Brine Disposal

____ Proposed

Number of Wells ____

____ Enhanced Recovery

____ Hydrocarbon Storage

____ Class III

____ Other

Lease Number

Well Number

Name(s) and Address(es) of New Owner(s)

Name and Address of New Operator

Attach to this application a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them.

The new permittee must show evidence of financial responsibility by the submission of a surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the Director.

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR

Name and Official Title (Please type or print)

Signature

Date Signed

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Surface Owner

Permit Number

____ 1/4 of ____ 1/4 of ____ 1/4 of ____ 1/4 of Section ____ Township ____ Range ____

Locate well in two directions from nearest lines of quarter section and drilling unit

Location ____ ft. frm (N/S) ____ Line of quarter section

and _____ ft. from (E/W) _____ Line of quarter section.

TYPE OF PERMIT

☐ Individual

Area

Number of Wells ____

Well Number

**TUBING -- CASING ANNULUS PRESSURE
(OPTIONAL MONITORING)**

[illegible]

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Date Signed _____



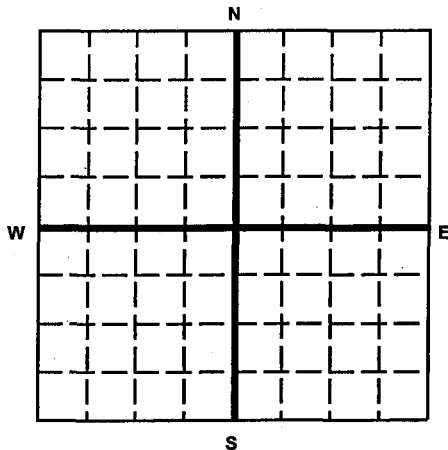
United States Environmental Protection Agency
Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN

Name and Address of Facility

Name and Address of Owner/Operator

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

County

Permit Number

Surface Location Description

____ 1/4 of ____ 1/4 of ____ 1/4 of ____ 1/4 of Section ____ Township ____ Range ____

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location ____ ft. frm (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section.

TYPE OF AUTHORIZATION

- ☐ Individual Permit
☐ Area Permit
☐ Rule

Number of Wells ____

Lease Name

WELL ACTIVITY

- ☐ CLASS I
☐ CLASS II
☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage
☐ CLASS III

Well Number

CASING AND TUBING RECORD AFTER PLUGGING

SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☐ The Balance Method
☐ The Dump Bailer Method
☐ The Two-Plug Method
☐ Other

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)							
Depth to Bottom of Tubing or Drill Pipe (ft)							
Sacks of Cement To Be Used (each plug)							
Slurry Volume To Be Pumped (cu. ft.)							
Calculated Top of Plug (ft.)							
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)

From	To	From	To

Estimated Cost to Plug Wells

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Signature

Date Signed



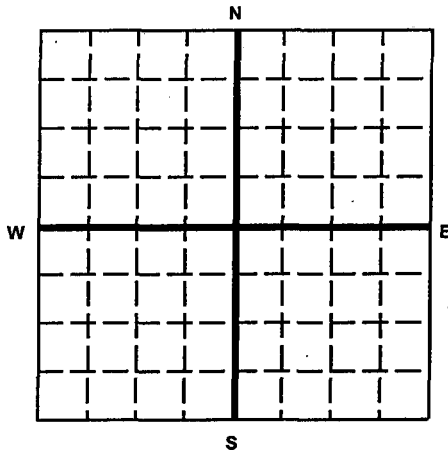
United States Environmental Protection Agency
Washington, DC 20460

WELL REWORK RECORD

Name and Address of Permittee

Name and Address of Contractor

Locate Well and Outline Unit on
Section Plat - 640 Acres



State

County

Permit Number

Surface Location Description

____ 1/4 of ____ 1/4 of ____ 1/4 of ____ 1/4 of Section ____ Township ____ Range ____

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface

Location ____ ft. frm (N/S) ____ Line of quarter section

and ____ ft. from (E/W) ____ Line of quarter section.

WELL ACTIVITY

- ☐ Brine Disposal
☐ Enhanced Recovery
☐ Hydrocarbon Storage

Lease Name

Total Depth Before Rework

Total Depth After Rework

Date Rework Commenced

Date Rework Completed

TYPE OF PERMIT

- ☐ Individual
☐ Area

Number of Wells ____

Well Number

WELL CASING RECORD -- BEFORE REWORK

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

WELL CASING RECORD -- AFTER REWORK (Indicate Additions and Changes Only)

Casing		Cement		Perforations		Acid or Fracture Treatment Record
Size	Depth	Sacks	Type	From	To	

DESCRIBE REWORK OPERATIONS IN DETAIL
USE ADDITIONAL SHEETS IF NECESSARY

WIRE LINE LOGS, LIST EACH TYPE

Log Types

Logged Intervals

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print)

Signature

Date Signed

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir
Use "APPLICATION FOR PERMIT--" for such proposals

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

UTU-22158

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

UTU630430

8. Well Name and No.

WV 7G-7-8-22

9. API Well No.

43-047-34628

10. Field and Pool, or Exploratory Area

WONSITS VALLEY

11. County or Parish, State

UINTAH, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil

Gas

☒ Well ☐ Well ☐ Other

2. Name of Operator

SHENANDOAH ENERGY INC. (QEP UINTA BASIN, INC.)

3. Address and Telephone No.

11002 E. 17500 S. VERNAL, UT 84078-8526

(435) 781-4341

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1985' FNL, 2290' FEL, SWNE, SECTION 7, T8S, R22E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION



Notice of Intent



Subsequent Report



Final Abandonment Notice

TYPE OF ACTION



Abandonment



Recompletion



Plugging Back



Casing Repair



Altering Casing



Other APD Extension



Change of Plans



New Construction



Non-Routine Fracturing



Water Shut-Off



Conversion to Injection



Dispose Water

(Note) Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Shenandoah Energy Inc. hereby requests a one year extension from approval date on the WV 7G-7-8-22.

RECEIVED

DEC 31 2003

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL ATTACHED

14. I hereby certify that the foregoing is true and correct.

Signed RALEEN SEARLE *Raleen Searle*

Title REGULATORY AFFAIRS ANALYST

Date 9/9/03

(This space for Federal or State office use)

Approved by: Kirk Furbush

Title Petroleum Engineer

Date 12/15/03

Conditions of approval, if any

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

QEP- Uintah Basin Inc.
APD Extension

Well: WV 7G-7-8-22

Location: SWNE Sec. 7, T8S, R22E

Lease: U-22158

CONDITIONS OF APPROVAL

An extension for the referenced APD is granted with the following conditions:

1. The extension will expire 08/12/04
2. No other extensions beyond that time frame will be granted or allowed.

If you have any other questions concerning this matter, please contact Kirk Fleetwood of this office at (435) 781-4486



State of Utah

Department of
Natural Resources

ROBERT L. MORGAN
Executive Director

Division of
Oil, Gas & Mining

LOWELL P. BRAXTON
Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

July 16, 2004

Julie Black
QEP Uinta Basin Inc.
11002 East 17500 South
Vernal, Utah 84078

Re: APD Rescinded – WVU 7G-7-8-22, Sec. 7, T. 8S, R. 22E
Uintah County, Utah API No. 43-047-34628


Dear Ms. Black:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on July 15, 2002. On July 30, 2003, the Division granted a one-year APD extension. On July 14, 2004, you requested that the division rescind the state approved APD. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective July 14, 2004.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Whitney
Engineering Technician

cc: Well File
Bureau of Land Management, Vernal



United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Vernal Field Office
170 South 500 East
Vernal, UT 84078
(435) 781-4400 Fax: (435) 781-4410
<http://www.blm.gov/utah/vernal>



IN REPLY REFER TO:
3160
UT08300

August 19, 2004

Jan Nelson
QEP-Uinta Basin, Inc.
11002 East 17500 South
Vernal, UT 84078

43-047-34628
Re: Notification of Expiration
Well No. WV 7G-7-8-22
SWNE, Sec. 7, T8S, R22E
Uintah County, Utah
Lease No. UTU-022158
Wonsits Valley GR

Dear Ms. Nelson:

The Application for Permit to Drill the above-referenced well was approved on August 12 2002. A one (1) year extension of the original APD was requested. The request was reviewed and the extension approved until August 12, 2004. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location at a future date, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

Leslie Walker
Legal Instruments Examiner

cc: UDOGM

RECEIVED

AUG 23 2004

DIV. OF OIL, GAS & MINING